



Name of the Bundle	Proficient Bundle V1	Subject	Interview Skills In Programming V1
Topic	Python Programming FAQs	Last updated on	15 October 2024

Frequently Asked Questions in Python Programming:

1. What is Python?

- An operating system
- A programming language
- An utility
- A video game

Ans: b. A programming language

2. What type of programming paradigm does Python support?

- Object-oriented
- Procedural
- Functional
- All of the above

Ans: d. All of the above

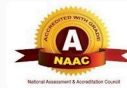
3. Which of the following is a key feature of Python?

- Static typing
- Dynamic typing
- Compiled language
- Low-level language

Ans: b. Dynamic typing



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4. Which feature allows Python to run its code on different platforms without modification?
- Portability
 - Interpreted language
 - Object-oriented
 - None of the above

Ans: a. Portability

5. What type of memory management does Python use?
- Manual memory management
 - Automatic garbage collection
 - Static memory allocation
 - None of the above

Ans: b. Automatic garbage collection

6. Which component of the Python Virtual Machine is responsible for managing memory?
- Python compiler
 - Python interpreter
 - Python class loader
 - Python Memory Manager

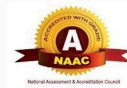
Ans: d. Python Memory Manager

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7. What is a key advantage of Python?

- It has a complicated syntax.
- It is easy to read and write.
- It only works on Windows.
- It is a low-level language.

Ans: b. It is easy to read and write.

8. Is Python a compiled or an interpreted language?

- Yes, it is compiled.
- No, it is primarily interpreted.
- It is both compiled and interpreted.
- It is a hybrid language.

Ans: c. It is both compiled and interpreted.

9. What does PEP stand for?

- Python Enhancement Proposal
- Python Easy Programming
- Python Extended Protocol
- Python Excellent Practices

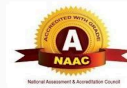
Ans: a. Python Enhancement Proposal

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10. What is the main purpose of PEP 8?

- a. To improve Python's performance
- b. To provide guidelines for writing clean and readable Python code
- c. To define new features of Python
- d. To list Python libraries

Ans: b. To provide guidelines for writing clean and readable Python code.

11. Which of the following is a comment in Python?

- a. // This is a comment
- b. # This is a comment
- c. /* This is a comment */
- d. -- This is a comment

Ans: b. # This is a comment

12. Which of the following is a mutable data type in Python?

- a. Tuple
- b. String
- c. List
- d. Frozenset

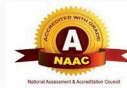
Ans: c. List

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13. What happens when you modify a mutable object?

- a. A new object is created.
- b. The original object is changed.
- c. The program crashes.
- d. It remains unchanged.

Ans: b. The original object is changed.

14. Which of the following is NOT a mutable type in Python?

- a. Dictionary
- b. Set
- c. List
- d. String

Ans: d. String

15. How does Python pass variables to functions?

- a. By value
- b. By reference
- c. By object reference
- d. By name

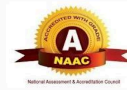
Ans: c. By object reference

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16. What happens if you modify a list inside a function?

- a. The original list stays the same.
- b. The original list is changed.
- c. An error occurs.
- d. A new list is created.

Ans: b. The original list is changed.

17. What happens when you pass a string to a function?

- a. The string can be changed.
- b. The original string remains unchanged.
- c. A new string is created.
- d. Both B and C.

Ans: d. Both B and C.

18. What does the pass statement do in Python?

- a. It skips the current loop iteration.
- b. It does nothing and acts as a placeholder.
- c. It raises an error.
- d. It exits the program.

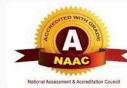
Ans: b. It does nothing and acts as a placeholder

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19. Where can you use the pass?

- a. In a function
- b. In a loop
- c. In an if statement
- d. All of the above

Ans: d. All of the above

20. What happens if you run if True: pass?

- a. It does nothing.
- b. It prints "True".
- c. It raises an error.
- d. It exits the program.

Ans: a. It does nothing.

21. What does the / operator do in Python?

- a. Divides and gives an integer
- b. Divides and gives a float
- c. Multiplies two numbers
- d. Adds two numbers

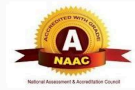
Ans: b. Divides and gives a float.

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22. What is the result of $5 / 2$?

- a. 2
- b. 2.5
- c. 3
- d. 2.0

Ans: b. 2.5

23. What is the result of $5 // 2$?

- a. 2
- b. 2.5
- c. 3
- d. 2.0

Ans: a. 2

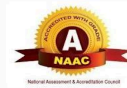
24. What does a for loop do?

- a. Repeats code forever
- b. Iterates over a sequence
- c. Creates a function
- d. Stops the program

Ans: b. Iterates over a sequence

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25. What does a while loop do?

- a. Executes a sequence
- b. Repeats code while a condition is true
- c. Always runs once
- d. Creates a list

Ans: b. Repeats code while a condition is true

26. Which loop is more likely to create an infinite loop?

- a. For loop
- b. While loop
- c. Both for and while loops
- d. No loop creates infinite loops

Ans: b. While loop

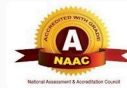
27. What is the output of the following code?

```
for i in range(3):
```

```
    print(i)
```

- a. 0 1 2
- b. 1 2 3
- c. 0 1 2 3
- d. 1 2

Ans: a. 0 1 2



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28. Which of the following will create an infinite loop?

- a. for i in range(10):
- b. while True:
- c. for i in range(0):
- d. while i < 10:

Ans: b. while True:

29. Can you pass a function as an argument to another function in Python?

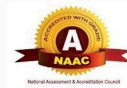
- a. Yes
- b. No
- c. Only in certain cases
- d. Only with lambda functions

Ans: a. Yes

30. What is a common use of passing functions as arguments?

- a. To create infinite loops
- b. To enhance code flexibility and reusability
- c. To stop the program
- d. To define variables

Ans: b. To enhance code flexibility and reusability



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31. What does *args allow you to do?

- a. Pass multiple keyword arguments
- b. Define a function
- c. Pass a single argument
- d. Pass multiple positional arguments

Ans: d. Pass multiple positional arguments

32. What does **kwargs allow you to do?

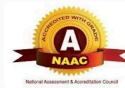
- a. Pass multiple positional arguments
- b. Pass a variable number of keyword arguments
- c. Pass a single argument
- d. Define a function

Ans: b. Pass a variable number of keyword arguments

33. How do you use *args in a function?

- a. `def my_func(args):`
- b. `def my_func(*args):`
- c. `def my_func(**args):`
- d. `def my_func(args*):`

Ans: b. `def my_func(*args):`



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34. How do you use ****kwargs** in a function?

- a. `def my_func(args):`
- b. `def my_func(*kwargs):`
- c. `def my_func(**kwargs):`
- d. `def my_func(kwargs*):`

Ans: c. `def my_func(kwargs):`**

35. Is indentation required in Python?

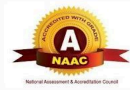
- a. Yes
- b. No
- c. Only in functions
- d. Only in loops

Ans: a. Yes

36. What is the common number of spaces used for indentation in Python?

- a. 1 space
- b. 2 spaces
- c. 4 spaces
- d. 8 spaces

Ans: c. 4 spaces



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37. What is local scope?

- a. Variables accessible everywhere
- b. Variables inside a function
- c. Variables in a class
- d. None of the above

Ans: b. Variables inside a function

38. What is global scope?

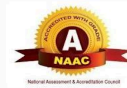
- a. Variables inside a function
- b. Variables at the top level of a module
- c. Variables that cannot be accessed
- d. Only built-in functions

Ans: b. Variables at the top level of a module

39. Which of these can be defined at the module level?

- a. Functions
- b. Variables
- c. Classes
- d. All of the above

Ans: d. All of the above



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What does a module contain?

- a. Definitions
- b. Functions
- c. Variables
- d. All the above

Ans: d. All the above

40. How do you use a module-level variable in another module?

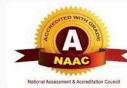
- a. Directly without import
- b. By importing the module
- c. By copying the variable
- d. It's not possible

Ans: b. By importing the module

41. What is the outermost scope in Python?

- a. Local scope
- b. Function scope
- c. Global scope
- d. Class scope

Ans: c. Global scope



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42. What is a docstring in Python?

- a. A type of comment
- b. A variable name
- c. A built-in function
- d. A way to create loops

Ans: a. A type of comment

43. Where is a docstring placed in a function?

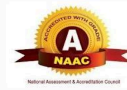
- a. Next to the function name
- b. Inside the function body
- c. Immediately after the function definition line
- d. At the end of the file

Ans: c. Immediately after the function definition line

44. How do you define a docstring?

- a. Using #
- b. Using `"""` or `'''`
- c. Using `//`
- d. Using `<<`

Ans: b. Using `"""` or `'''`



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45. How can you access a function's docstring?

- a. Using function.__doc__
- b. Using function.doc
- c. Using function.documentation
- d. You cannot access it

Ans: a. Using function.__doc__

46. In which type of typed language are types checked at compile time?

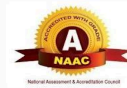
- a. Dynamically Typed
- b. Statically Typed
- c. Weakly Typed
- d. Strongly Typed

Ans: b. Statically Typed

47. What is a dynamically typed language?

- a. A language that checks types at runtime
- b. A language that requires type declarations
- c. A language that has no types
- d. A language that only uses numbers

Ans: a. A language that checks types at runtime



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48. Which of the following is an example of a dynamically typed language?

- a. Java
- b. C++
- c. Python
- d. C#

Ans: c. Python

49. Can you change a variable's type in a dynamically typed language?

- a. Yes
- b. No
- c. Only if it's a number
- d. Only with explicit declaration

Ans: a. Yes

50. What does the break statement do?

- a. Stops the current loop
- b. Skips the current iteration
- c. Does nothing
- d. Starts a new loop

Ans: a. Stops the current loop



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51. What does the continue statement do?

- a. Stops the current loop
- b. Skips the current iteration and continues to the next one
- c. Exits the program
- d. Starts a new loop

Ans: b. Skips the current iteration and continues to the next one

52. Which statement can be used as a placeholder in a loop or function?

- a. break
- b. continue
- c. pass
- d. exit

Ans: c. pass

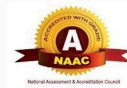
53. Which module do you need to use floor()?

- a. statistics
- b. math
- c. random
- d. sys

Ans: b. math



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54. What will `math.floor(5.9)` return?

- a. 6
- b. 5
- c. 5.9
- d. None of the above

Ans: b. 5

55. What will `math.floor(-2.3)` return?

- a. -2
- b. -3
- c. -2.3
- d. None of the above

Ans: b. -3

56. What is slicing in Python?

- a. Cutting a string
- b. Getting part of a sequence
- c. Adding numbers
- d. None of the above

Ans: b. Getting part of a sequence

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57. What does `my_list[0:3]` return?

- a. Items from index 0 to 2
- b. Items from index 0 to 3
- c. The whole list
- d. An empty list

Ans: a. Items from index 0 to 2

58. What is the first index in positive indexing?

- a. 0
- b. 1
- c. n-1
- d. -1

Ans: a. 0

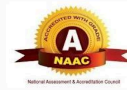
59. What is the first index in negative indexing?

- a. 0
- b. 1
- c. n-1
- d. -1

Ans: d. -1

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60. What is the default step in slicing?

- a. 0
- b. 1
- c. 2
- d. None

Ans: b. 1

61. What does my_string[::-1] return?

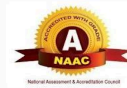
- a. The whole string
- b. Every second character
- c. An empty string
- d. Reversed string

Ans: a. The whole string

62. What is a module in Python?

- a. A type of variable
- b. A file containing Python code
- c. A built-in function
- d. None of the above

Ans: b. A file containing Python code



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63. How do you import a module in Python?

- a. include module_name
- b. import module_name
- c. load module_name
- d. require module_name

Ans: b. import module_name

64. Which of the following is a built-in module in Python?

- a. math
- b. string
- c. random
- d. All of the above

Ans: d. All of the above

65. How do you create a module in Python?

- a. By defining a class
- b. By creating a .py file
- c. By using the import statement
- d. By writing comments

Ans: b. By creating a .py file



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66. What is a package in Python?

- a. A single module
- b. A directory containing multiple modules
- c. A built-in function
- d. None of the above

Ans: b. A directory containing multiple modules

67. What does a package contain?

- a. Modules
- b. Sub-packages
- c. Sub Modules
- d. Both A and B

Ans: d. Both A and B

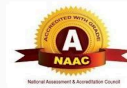
68. How do you import a module from a package?

- a. import package.module
- b. load package.module
- c. require package.module
- d. include package.module

Ans: a. import package.module



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69. Can a package contain sub-packages?

- a. Yes
- b. No
- c. Only if it has modules
- d. Only from Python 3

Ans: a. Yes

70. What is the type for whole numbers in Python?

- a. float
- b. int
- c. str
- d. list

Ans: b. int

71. Which of the following is a mutable data type?

- a. tuple
- b. str
- c. list
- d. frozenset

Ans: c. list

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72. What type is 3.14 in Python?

- a. int
- b. float
- c. complex
- d. NoneType

Ans: b. float

73. Which data type is used for key-value pairs?

- a. list
- b. set
- c. dictionary
- d. tuple

Ans: c. dictionary

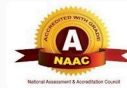
74. What is the value of type(None)?

- a. int
- b. NoneType
- c. str
- d. bool

Ans: b. NoneType

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75. What type is True in Python?

- a. int
- b. float
- c. str
- d. bool

Ans: d. bool

76. Which of the following represents a complex number?

- a. $3 + 4j$
- b. 3.0
- c. 5
- d. None

Ans: a. $3 + 4j$

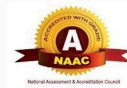
77. How do you check the type of a variable in Python?

- a. `checktype(variable)`
- b. `type(variable)`
- c. `typeof(variable)`
- d. `variable.type()`

Ans: b. `type(variable)`



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78. What will type(5) return?

- a. int
- b. float
- c. str
- d. bool

Ans: a. int

79. When does static type checking occur?

- a. During program execution
- b. Before the program runs
- c. Randomly
- d. Only with numbers

Ans: b. Before the program runs

80. When does dynamic type checking occur?

- a. At compile time
- b. At runtime
- c. Never
- d. Only with strings

Ans: b. At runtime

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81. What is the purpose of the garbage collector in Python?

- a. To increase the speed of execution
- b. To free up unused memory
- c. To optimize CPU usage
- d. To allocate more memory

Ans: b. To free up unused memory

82. Which of the following is NOT a type of memory that Python manages?

- a. Heap
- b. Stack
- c. Static memory
- d. Dynamic memory

Ans: c. Static memory

83. Where are Python objects stored?

- a. Heap
- b. Stack
- c. Queue
- d. CPU Registers

Ans: a. Heap



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84. What is the correct file extension for a Python file?

- a. .pt
- b. .py
- c. .pyt
- d. .python

Ans: b. .py

85. What is the purpose of a .pyc file?

- a. To store documentation
- b. To provide a backup of the .py file
- c. To store compiled bytecode
- d. To keep track of variable types

Ans: c. To store compiled bytecode

86. Which of the following makes the Python platform independent?

- a. Python Syntax
- b. Bytecode
- c. System Architecture
- d. Operating system

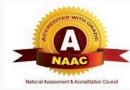
Ans: b. Bytecode

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87. Which file type is not human-readable?

- a. .py
- b. .txt
- c. .pyc
- d. .csv

Ans: c. .pyc

88. Which of the following is true about the `__init__.py` file?

- a. It can only be empty.
- b. It must contain at least one function.
- c. It can execute initialization code for the package.
- d. It is optional for all directories.

Ans: c. It can execute initialization code for the package.

89. Is `__init__.py` required in a package?

- a. Yes, always.
- b. No, it's optional.
- c. Only in Python 2.
- d. Only in Python 3.

Ans: b. No, it's optional.

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90. Which function is used to convert a string to an integer in Python?

- a. str()
- b. int()
- c. float()
- d. convert()

Ans: b. int()

91. What will int("123") return?

- a. 123.0
- b. "123"
- c. 123
- d. None

Ans: c. 123

92. What will happen if you try to convert a non-numeric string like int("abc")?

- a. It will return 0.
- b. It will raise a ValueError.
- c. It will return "abc".
- d. It will return None.

Ans: b. It will raise a ValueError.

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93. What does the is operator check in Python?

- a. Value equality
- b. Compares the identity of two objects
- c. Type equality
- d. None of the above

Ans: b. Compares the identity of two objects

94. What will be the result of the following code?

```
a = [1, 2, 3]
```

```
b = a
```

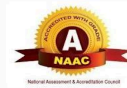
```
print(a is b)
```

- a. False
- b. True
- c. None
- d. TypeError

Ans: b. True



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95. Which of the following is a special literal in Python?

- a. None
- b. True
- c. False
- d. All of the above

Ans: a. None

96. What does help() do in Python?

- a. Shows documentation
- b. Prints numbers
- c. Creates a variable
- d. Deletes a file

Ans: a. Shows documentation

97. What does dir() return?

- a. Current directory
- b. List of functions and attributes
- c. Data type of an object
- d. Size of an object

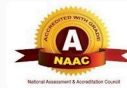
Ans: b. List of functions and attributes

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98. What is a shallow copy?

- a. Copies the object only
- b. Copies the object and its nested items
- c. Shares nested items with the original
- d. None of the above

Ans: c. Shares nested items with the original

99. Which method creates a shallow copy of a list?

- a. list.copy()
- b. list.clone()
- c. copy.deepcopy()
- d. copy()

Ans: a. list.copy()

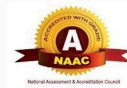
100. What is a deep copy?

- a. Copies only the outer object
- b. Copies everything, including nested items
- c. Creates a reference to the original
- d. Only works with strings

Ans: b. Copies everything, including nested items

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101. Which function is used to make a deep copy?

- a. copy()
- b. deepcopy()
- c. list.copy()
- d. clone()

Ans: b. deepcopy()

102. Which module is used to generate random numbers in Python?

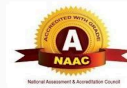
- a. random
- b. math
- c. statistics
- d. numpy

Ans: a. random

103. What will random.random() return?

- a. A random integer
- b. A random float between 0.0 and 1.0
- c. A random float between 1.0 and 10.0
- d. A random string

Ans: b. A random float between 0.0 and 1.0



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104. What is a lambda function in Python?

- a. A named function
- b. An anonymous function
- c. A built-in function
- d. A method of a class

Ans: b. An anonymous function

105. How is a lambda function defined?

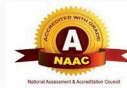
- a. `def function_name():`
- b. `lambda arguments: expression`
- c. `function lambda():`
- d. `lambda function_name()`

Ans: b. lambda arguments: expression

106. Which of the following is a valid lambda function that adds two numbers?

- a. `lambda x, y: x + y`
- b. `add(x, y) = lambda`
- c. `lambda (x, y): return x + y`
- d. `def add(x, y): return x + y`

Ans: a. lambda x, y: x + y



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107. What is a namespace in Python?

- a. A way to define functions
- b. A container that holds variable names and their references
- c. A module for organizing code
- d. A built-in data type

Ans: b. A container that holds variable names and their references

108. Which of the following is NOT a type of namespace in Python?

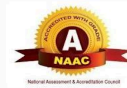
- a. Local namespace
- b. Global namespace
- c. Built-in namespace
- d. Static namespace

Ans: d. Static namespace

109. What type of namespace is created when a function is called?

- a. Global namespace
- b. Built-in namespace
- c. Local namespace
- d. Module namespace

Ans: c. Local namespace



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110. Which method is used to capitalize the first letter of a string in Python?

- a. upper()
- b. capitalize()
- c. title()
- d. first_upper()

Ans: b. capitalize()

111. Why use negative indexes?

- a. To make lists faster
- b. To easily access the last items
- c. To sort lists
- d. To create new lists

Ans: b. To easily access the last items

112. If my_list = [1, 2, 3, 4], what does my_list[-1] return?

- a. 1
- b. 2
- c. 3
- d. 4

Ans: d. 4



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113. What does == check in Python?

- a. Compare two values are equal
- b. Compare two values are not equal
- c. Compare one value is greater
- d. Compare one value is less

Ans: a. Compare two values are equal

114. What will 3 == "3" return?

- a. True
- b. False
- c. None
- d. Error

Ans: b. False

115. Which method checks if all characters in a string are alphanumeric?

- a. isalpha()
- b. isalnum()
- c. isdigit()
- d. isspace()

Ans: b. isalnum()

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116. What will `s = "Hello123"; s.isalnum()` return?

- a. True
- b. False
- c. None
- d. Error

Ans: a. True

117. What will `s = "Hello 123"; s.isalnum()` return?

- a. True
- b. False
- c. None
- d. Error

Ans: b. False

118. What does `range()` return in Python ?

- a. A sequence of numbers in the given range.
- b. An iterator
- c. A generator
- d. A tuple

Ans: a. A sequence of numbers in the given range.

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119. Which of the following parameters are optional in range() function?

- a. Start
- b. Stop
- c. Step
- d. Both A and C

Ans: d. Both A and C

120. Which of the following parameters are optional in Slicing?

- a. Start
- b. Stop
- c. Step
- d. Start,Stop,Step

Ans: D. Start,Stop,Step

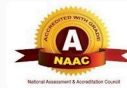
121. What does xrange() return in Python 2?

- a. A list
- b. An iterator
- c. A generator
- d. A tuple

Ans: b. An iterator

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122. What is a list in Python?

- a. A type of dictionary
- b. A collection of ordered items
- c. A built-in function
- d. A special type of string

Ans: b. A collection of ordered items

123. How do you create a list in Python?

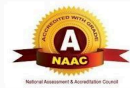
- a. list = {1, 2, 3}
- b. list = [1, 2, 3]
- c. list = (1, 2, 3)
- d. list = <1, 2, 3>

Ans: b. list = [1, 2, 3]

124. Which method adds an item to the end of a list?

- a. add()
- b. insert()
- c. append()
- d. extend()

Ans: c. append()



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125. Which method creates a shallow copy of a list?

- a. copy()
- b. clone()
- c. duplicate()
- d. list()

Ans: a. copy()

126. What type of copy reflects changes in both the original and the copied object?

- a. Variable assignment
- b. Deep copy
- c. Shallow copy
- d. String assignment

Ans: c. Shallow copy

127. What type of copy will not reflect changes in both the original and the copied object?

- a. Deep copy
- b. Shallow copy
- c. Variable assignment
- d. String concatenation

Ans: a. Deep copy



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128. How can you create a deep copy of a list?

- a. Using list.copy()
- b. Using copy.deepcopy()
- c. Using list()
- d. Using slice

Ans: b. Using copy.deepcopy()

129. Which can only hold one type of data?

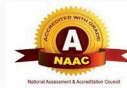
- a. List
- b. Array
- c. Tuple
- d. Dictionary

Ans: b. Array

130. What does list comprehension create?

- a. A new list
- b. A new string
- c. A new tuple
- d. A new set

Ans: a. A new list



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131. Which is the correct syntax for list comprehension?

- a. [x for x in range(5)]
- b. (x for x in range(5))
- c. {x for x in range(5)}
- d. list[x for x in range(5)]

Ans: a. [x for x in range(5)]

132. What is the main characteristic of a set in Python?

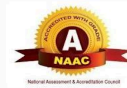
- a. It stores key-value pairs
- b. It stores ordered items
- c. It stores unique items
- d. It allows duplicates

Ans: c. It stores unique items

133. Which of the following is true about sets and dictionaries?

- a. Both can store duplicates.
- b. Sets do not have keys, while dictionaries do.
- c. Dictionaries can only store strings.
- d. Sets store key-value pairs.

Ans: b. Sets do not have keys, while dictionaries do.



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134. What is a decorator?

- a. A type of variable
- b. A function that modifies another function
- c. A way to create classes
- d. A built-in data type

Ans: b. A function that modifies another function

135. How do you apply a decorator to a function?

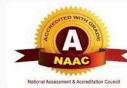
- a. Using @ above the function
- b. By calling the function inside another function
- c. By using curly braces
- d. By importing a library

Ans: a. Using @ above the function

136. What is a library in Python?

- a. A built-in function
- b. A collection of modules and packages
- c. A type of variable
- d. A special data structure

Ans: b. A collection of modules and packages



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137. Which library is commonly used for data manipulation and analysis?

- a. NumPy
- b. Matplotlib
- c. Pandas
- d. Requests

Ans: c. Pandas

138. What is the purpose of the NumPy library?

- a. To create web applications
- b. To perform numerical computations
- c. To handle HTTP requests
- d. To visualize data

Ans: b. To perform numerical computations

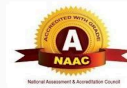
139. Which library is used for plotting and data visualization in Python?

- a. Scikit-learn
- b. Matplotlib
- c. TensorFlow
- d. Beautiful Soup

Ans: b. Matplotlib



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140. What is the Requests library used for?

- a. Data analysis
- b. Sending HTTP requests
- c. Creating graphs
- d. Machine learning

Ans: b. Sending HTTP requests

141. What is PYTHONPATH?

- a. Function to get the path
- b. Function to set the path
- c. Environment variable
- d. System Module

Ans: c. Environment variable

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