



Name of the Bundle	Intermediate Bundle V1	Subject	Python Programming V1
Topic	Built in functions	Last updated on	06 August 2025

1. What are pre-defined functions in Python?

- a. User-defined functions
- b. Modules
- c. Built-in functions
- d. Libraries

Ans: c. Built-in functions

Explanation: Built-in functions are predefined Python functions used for common tasks, like `pow()`, `random()`, and `divmod()`.

2. Why are pre-defined functions useful in Python?

- a. Make the code big
- b. Remove comments
- c. Perform common tasks
- d. Create errors

Ans: c. Perform common tasks

Explanation: Pre-defined functions help perform common tasks easily, such as printing or finding the length.

3. Which module should be imported to use mathematical functions in Python?

- a. input
- b. number
- c. math
- d. logic

Ans: c. math

Explanation: The math module provides functions like `sqrt()`, `sin()`, and `log()`.



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4. What is the correct way to access functions from the math module?

- a. use math
- b. define math
- c. import math
- d. start math

Ans: c. import math

Explanation: The import keyword is used to load the math module and use its functions.

5. What does the divmod() function return?

- a. Only quotient
- b. Only remainder
- c. Quotient and remainder
- d. float value

Ans: c. Quotient and remainder

Explanation: divmod() gives both quotient and remainder in one go.

6. What is the output of the following code? print (divmod(10, 3))

- a. (3, 1)
- b. (3, 0)
- c. (10, 3)
- d. (3.3, 1)

Ans: a. (3, 1)

Explanation: The divmod() function returns a tuple containing the quotient and remainder when dividing 10 by 3.



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7. What built-in Python function raises a number to a specified power?

- a. `sqrt ()`
- b. `pow ()`
- c. `abs ()`
- d. `round ()`

Ans: b. `pow ()`

Explanation: The `pow ()` function takes two arguments, the base and the exponent, and returns the base raised to the power of the exponent.

8. What is the use of the `pow()` function?

- a. Adds numbers
- b. Subtracts numbers
- c. Raises a number to the power
- d. Divides numbers

Ans: c. Raises a number to the power

Explanation: `pow()` raises a number to a certain power (like 2^3).

9. What is the result of the following code? `print (pow (2, 3))`

- a. 6
- b. 8
- c. 9
- d. 12

Ans: b. 8

Explanation: The `pow (2, 3)` function calculates 2 raised to the power of 3, resulting in 8.



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10. Which function rounds a number to a specific number of decimal places?

- a. ceil ()
- b. floor ()
- c. round ()
- d. fabs ()

Ans: c. round ()

Explanation: The round () function rounds a number to the nearest integer or a specified number of decimal places.

11. What does the round() function do?

- a. Finds square root
- b. Converts to integer
- c. Rounds number
- d. Returns string

Ans: c. Rounds number

Explanation: round() rounds the number to a certain decimal point.

12. What is the output of print(round(7.8946, 3))?

- a. 7.894
- b. 7.895
- c. 7.893
- d. 7.890

Ans: b. 7.895

Explanation: The round() function rounds the number 7.8946 to three decimal places, so the result is 7.895.



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13. What is the purpose of the sum () function in Python?

- a. Subtract numbers
- b. Add numbers to a list
- c. Count values
- d. Show length

Ans: b. Add numbers to a list

Explanation: The sum () function returns the sum of all items in an iterable, such as a list or tuple.

14. Which function returns the smallest value from a list of values?

- a. max ()
- b. sum ()
- c. min ()
- d. sorted ()

Ans: c. min ()

Explanation: The min () function returns the smallest value in an iterable or among two or more arguments.

15. Given a list value = [5, 3, 8, 1, 6], which function call returns 1?

- a. max(values)
- b. min(values)
- c. sum(values)
- d. sorted(values)

Ans: b. min(values)

Explanation: The min () function returns the smallest value in the list, which is 1.



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16. Which of the following functions returns the largest value from a list of values?

- a. sorted ()
- b. len ()
- c. max ()
- d. min ()

Ans: c. max ()

Explanation: The max () function returns the largest value in an iterable or among two or more arguments.

17. Given a list values = [5, 3, 8, 1, 6], which function call returns the Maximum value?

- a. max(values)
- b. min(values)
- c. sum(values)
- d. sorted(values)

Ans: a. max(values)

Explanation: The sum () function calculates the total of all elements in the list [2, 4, 6, 8], which is 20.

18. What does the ceil() function return?

- a. Smaller value
- b. Same value
- c. Greater integer value
- d. Average value

Ans: c. Greater integer value

Explanation: ceil() gives the next whole number greater than the given value. Example: ceil(3.7) is 4.



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19. What will be the output of `math.ceil(4.2)`?

- a. 4
- b. 5
- c. 4.0
- d. 5.0

Ans: b. 5

Explanation: `ceil(4.2)` returns the next whole number, which is 5.

20. Which function gives the smallest integer greater than the input?

- a. `floor()`
- b. `round()`
- c. `int()`
- d. `ceil()`

Ans: d. `ceil()`

Explanation: `ceil()` always rounds a number upward to the next integer.

21. What does the `floor()` function return?

- a. Greater value
- b. Smaller integer value
- c. Decimal value
- d. Negative value

Ans: b. Smaller integer value

Explanation: `floor()` returns the largest integer less than the number. Example: `floor(3.7)` gives 3.



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22. What is the result of `math.floor(6.9)`?

- a. 7
- b. 6
- c. 6.0
- d. 7.0

Ans: b. 6

Explanation: `floor(6.9)` gives the greatest integer less than or equal to 6.9, which is 6.

23. Which function gives the greatest integer smaller than the input?

- a. `ceil()`
- b. `round()`
- c. `int()`
- d. `floor()`

Ans: d. floor()

Explanation: `floor()` rounds the number downward to the nearest whole number.

24. Which function returns E raised to the power of x in Python?

- a. `exp(x)`
- b. `pow(x)`
- c. `log(x)`
- d. `sqrt(x)`

Ans: a. exp(x)

Explanation: `exp(x)` returns E^x , where $E \approx 2.718282$.



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25. What is the approximate value of the constant E?

- a. 3.14
- b. 2.71
- c. 1.41
- d. 1.73

Ans: b. 2.71

Explanation: E is the base of natural logarithms, approximately 2.718282.

26. If $x = 1$, what will `math.exp(x)` return approximately?

- a. 1
- b. 2.7
- c. 3.14
- d. 0

Ans: b. 2.7

Explanation: `exp(1)` returns E^1 , which is approximately 2.718282.

27. Which function is used to return the absolute value in Python?

- a. `abs()`
- b. `int()`
- c. `round()`
- d. `floor()`

Ans: a. `abs()`

Explanation: `abs()` removes the negative sign and gives the positive value.



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28. What does `abs()` do to a negative number?

- a. Doubles it
- b. Changes it to zero
- c. Makes it positive
- d. Adds one

Ans: c. Makes it positive

Explanation: `abs()` gives the positive value of any number.

29. What is the result of `abs(-9)`?

- a. -9
- b. 0
- c. 9
- d. 1

Ans: c. 9

Explanation: `abs(-9)` gives 9 by removing the negative sign.

30. What type of number is generated using the random module?

- a. Fixed number
- b. Even number
- c. Predictable number
- d. Unpredictable number

Ans: d. Unpredictable number

Explanation: Random numbers are unpredictable and cannot be reasonably guessed.



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31. Which module is to be imported to use random functions?

- a. math
- b. random
- c. trigonometric
- d. datetime

Ans : b. random

Explanation: To use random functions in Python, import the random module. It provides functions for generating random numbers and performing random operations.

32. What does random.random() return?

- a. An integer
- b. A string
- c. A float between 0 and 1
- d. A float greater than 1

Ans: c. A float between 0 and 1

Explanation: random.random() returns a decimal number between 0.0 and 1.0.

33. What does random.randint(1, 5) return?

- a. Any float between 1 and 5
- b. An integer between 1 and 5
- c. A string
- d. Always 5

Ans: b. An integer between 1 and 5

Explanation: randint() gives a random integer, including both end values.



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34. What does `random.randrange(1, 5)` return?

- a. A float
- b. A number between 1 and 4
- c. A number between 1 and 5
- d. Only 5

Ans: b. A number between 1 and 4

Explanation: `randrange()` returns a random integer excluding the stop value.

35. What does `random.choice(['red', 'green', 'blue'])` return?

- a. A number
- b. A random color from the list
- c. An error
- d. The length of the list

Ans: b. A random color from the list

Explanation: `choice()` selects one random item from a sequence.

36. Which function is best for picking one random element from a list?

- a. `choice()`
- b. `randint()`
- c. `range()`
- d. `shuffle()`

Ans: a. choice()

Explanation: `choice()` picks a random item from a list or tuple.



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37. What does the random.shuffle () function do in Python?

- a. Sorts a list
- b. Reverses a list
- c. Shuffles a list
- d. Finds an element

Ans: c. Shuffles a list

Explanation: The random.shuffle() function randomly rearranges the elements of a list.

38. Which function is used to check if two values are close to each other?

- a. round()
- b. abs()
- c. isclose()
- d. ==

Ans: c.isclose()

Explanation: isclose() checks if two floating-point numbers are nearly equal, accounting for precision errors.

39. What does random.uniform(2.0, 4.0) return?

- a. Only integers
- b. Only 2 or 4
- c. A float between 2.0 and 4.0
- d. A negative number

Ans: c. A float between 2.0 and 4.0

Explanation: uniform() gives a random decimal between the given range.



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40. Why should floats not be compared for equality using == or != in Python?

- a. They can have rounding errors.
- b. They are case-sensitive.
- c. They are stored as characters.
- d. They are always positive numbers.

Ans: a. They can have rounding errors.

Explanation: Floats may contain small rounding errors, so using == or != can lead to incorrect comparisons.

41. What is the result of the comparison $0.4 == 0.1 + 0.3$ in Python?

- a. True
- b. False
- c. Error
- d. Depends on system

Ans: b. False

Explanation: Due to floating-point precision, $0.1 + 0.3$ may not be exactly equal to 0.4.

42. What is an instruction that a Python interpreter can execute called?

- a. Function
- b. Statement
- c. Expression
- d. Module

Ans: b. Statement

Explanation: A statement is an instruction that the Python interpreter can execute.

Statements can be classified as simple (e.g., print(), assignment) or compound (e.g., if, for loops).



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43. Which statement in Python can evaluate a mathematical operation like $a = 5 + 7$?

- a. Assignment statement
- b. Expression statement
- c. Import statement
- d. Augmented assignment statement

Ans: b. Expression statement

Explanation: An expression statement evaluates an expression, such as $5 + 7$, but does not store the result unless explicitly assigned to a variable.

44. When would you use an assert statement in Python?

- a. To define a new variable
- b. To handle exceptions
- c. To raise error if false
- d. To print debug messages

Ans: c. To raise error if false

Explanation: The assert statement is used to test conditions. If the condition is False, it raises an AssertionError.

45. What is the result of an assignment statement in Python, like $x = 10$?

- a. Creates a new function
- b. Deletes a variable
- c. Assigns the value 10 to the variable x
- d. Checks if x is equal to 10

Ans: c. Assigns the value 10 to the variable x

Explanation: An assignment statement assigns a value to a variable, such as $x = 10$.



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46. Which of the following is an example of an augmented assignment statement?

- a. $x = 10$
- b. $x += 5$
- c. $x == 5$
- d. $x > 5$

Ans: b. $x += 5$

Explanation: An augmented assignment statement combines an arithmetic operation with assignment, such as $x += 5$.

47. Which Python statement would you use to remove a variable from memory?

- a. remove statement
- b. erase statement
- c. delete statement
- d. del statement

Ans: d. del statement

Explanation: The del statement is used to delete a variable or an object from memory.

48. What does the import statement do in a Python script?

- a. Imports a function from a class
- b. Imports external modules or libraries
- c. Deletes unused variables
- d. Sorts a list in ascending order

Ans: b. Imports external modules or libraries

Explanation: The import statement is used to include external modules or libraries, allowing access to additional functions and classes.



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49. How can you write a long Python statement across multiple lines?

- a. backslash
- b. Use square brackets []
- c. Use curly braces {}
- d. Use the semicolon ;

Ans: a. backslash

Explanation: Parentheses or a backslash (\) can be used to extend a Python statement over multiple lines for better readability.

50. What is the purpose of the datetime module in Python?

- a. To perform mathematical calculations
- b. To handle and manipulate dates and times
- c. To create graphical user interfaces
- d. To manage network connections

Ans: b. To handle and manipulate dates and times

Explanation: The datetime module in Python provides classes for representing and manipulating dates and times, and for formatting and parsing them in various formats.

51. Which module is used to represent a specific date and time?

- a. time
- b. date
- c. datetime
- d. calendar

Ans: c. datetime

Explanation: The datetime class from the datetime module is used to represent both date and time together.



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52. Which class is used to calculate the difference between two dates or times?

- a. timedelta
- b. datetime
- c. time
- d. timezone

Ans: a. timedelta

Explanation: The timedelta class represents the difference between two dates or times.

53. What does datetime.date(2020, 7, 23) return?

- a. 2020-07-23
- b. Error
- c. Date object
- d. Current date

Answer: a. 2020-07-23

Explanation: The datetime.date() constructor creates a date object, and printing it returns a string in the format YYYY-MM-DD.

54. What is the output of datetime.now()?

- a. Only time
- b. Only date
- c. Current date and time
- d. None

Answer: c. Current date and time

Explanation: datetime.now() returns the current local date and time as a datetime object (e.g., 2025-08-06 15:10:45.123456).



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55. Which class gives the current year using today.year?

- a. time
- b. datetime
- c. date
- d. timedelta

Answer: c. date

Explanation: datetime.date.today().year accesses the current year. The date class contains the today() method.

56. What is the output of time(11, 34, 56).minute?

- a. 34
- b. 11
- c. 56
- d. 0

Answer: a. 34

Explanation: time(11, 34, 56) creates a time object (11:34:56), and .minute returns the minute part, which is 34.