Selvam College of Technology

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An ISO 9001:2015 Certified Institution, Approved by AICTE New Delhi, Affiliated to Anna University-Chennai
PONNUSAMY NAGAR, SALEM ROAD(NH-44), NAMAKKAL-637003. TAMILNADU.
Mobile: 9942099122, 9942099109, Web: www.selvamtech.edu.in

Name of the Bundle	Advanced Bundle V1	Subject	Java Programming V1
Topic	Break & Continue	Last updated on	22 August 2025

1. What is the main purpose of a break in a loop?

   a. Skip iteration

   b. Exit the loop immediately

   c. Pause execution

   d. Repeat step

   Ans: b. Exit the loop immediately

   Explanation: The break statement ends the loop when encountered.

2. Which control structure also uses "break" apart from loops?

   a. if

   b. switch

   c. class

   d. method

   Ans: b. switch

   Explanation: break prevents fall-through in switch statements.

3. break is typically used with which other statement?

   a. if

   b. class

   c. try

   d. return

   Ans: a. if

   Explanation: Often paired with if to apply a condition.

4. What happens first in a loop when a break is encountered?

   a. Loop finishes

   b. Loop restarts

   c. Loop stops immediately

   d. Continues to the next iteration

   Ans: c. Loop stops immediately

   Explanation: No further loop iterations occur after the break.

5. Where is the break not valid?

   a. Inside loop

   b. Inside if

   c. Outside loop/switch

   d. Inside switch

   Ans: c. Outside loop/switch

   Explanation: break is only valid in loops or switch statements.

6. What is the output of:

   ```
   for(i=1; i<=10; i++) {
     System.out.println(i);
     break;
   }
   ```

   a. 10

   b. 1

   c. Error

   d. None

   Ans: b. 1

   Explanation: break exits after printing once.

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7. What error occurs when code follows an unconditional break?

    a. Syntax error

    b. Compilation warning

    c. Unreachable statement

    d. Logical error

Ans: c. Unreachable statement

Explanation: Java flags unreachable code if a break occurs before it.

8. How many numbers are printed by:

for(i=1; i<=10; i++) { System.out.print(i); if(i==5) break; }

    a. 4

    b. 5

    c. 6

    d. 10

Ans: b. 5

Explanation: The Loop stops after printing 1−5.

9. What is the output when the break is used in this while loop?

while(i<=10){if(i==5) break; System.out.print(i); i++;}

    a. 12345

    b. 1234

    c. 123

    d. None

Ans: b. 1234

Explanation: The Loop stops before printing 5.

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10. How many times does a do-while loop run before break at i==5?

    a. 3

    b. 4

    c. 5

    d. 10

Ans: b. 4

Explanation: Prints 1 to 4, then breaks.

11. Which loop does a labeled break terminate?

    a. Current loop

    b. Innermost loop

    c. Outer loop

    d. All loops

Ans: c. Outer loop

Explanation: A labeled break exits the named outer loop.

12. What is the primary effect of "continue" ?

    a. Stops the program

    b. Skips the rest of the loop body

    c. Ends all loops

    d. Repeats condition

Ans: b. Skips the rest of the loop body

Explanation: continue skips to the next iteration.

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13. Can "continue" terminate a loop?

    a. Yes

    b. No

    c. Only with if

    d. In while only

Ans: b. No

Explanation: It skips iteration, not the whole loop.

14. What happens after a continue statement is hit?

    a. Ends loop

    b. Starts next iteration

    c. Goes to the next statement

    d. Prints null

Ans: b. Starts next iteration

Explanation: Loop skips current iteration and resumes at the top.

15. What is the output?

```
for(i=1;i<=10;i++){
  if(i==5) continue;
  System.out.print(i);
}
```

    a. 12345678910

    b. 123410

    c. 1234678910

    d. 123467810

Ans: c. 1234678910

Explanation: Skips only when i==5.

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16. What is the output?

    for(i=0;i<=10;i++){

      if(i==5) break;

      System.out.print(i);

    }

    a. 01234

    b. 12345

    c. 012345

    d. 0

Ans: a. 01234

Explanation: Breaks after printing 4.

17. What causes an error in this code?

    if(i==5)

    Continue;

    a. Unused keyword

    b. Incorrect case

    c. Missing loop

    d. Brackets error

Ans: b. Incorrect case

Explanation: Java is case-sensitive; it should be continue.

18. Why does this while loop become infinite?

if(i==3)

  continue;

System.out.print(i);

i++;

   a. i not declared

   b. No break

   c. i never increases

   d. continue in the wrong place

Ans: c. i never increases

Explanation: When i==3, i++ is skipped, causing infinite repetition.

19. Which fix ensures correct behavior in the continue logic?

   a. Add a break

   b. Use if-else

   c. Increment i before continue

   d. Move the print above if

Ans: c. Increment i before continue

Explanation: Prevents skipping i++, avoiding an infinite loop.

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20. What is printed by this code?

```
while(i<=5){
 if(i==3) break;
 System.out.print(i);
 i++;
}
```

   a. 123

   b. 12

   c. 1345

   d. 3

Ans: b. 12

Explanation: Breaks before printing 3.

21. What number is skipped?

```
while(i<=5){ if(i==3){
 i++;
 continue;
}
System.out.print(i);
i++; }
```

   a. 1245

   b. 2

   c. 3

   d. 5

Ans: a. 1245

Explanation: The loop skips printing when i==3.

22. What is the role of else here?

```
if(i!=3){
  print(i);
}else{
  i++;
  continue;
}
i++;
```

   a. Skips 2

   b. Skips 3

   c. Prints all

   d. Error

Ans: b. Skips 3

Explanation: Uses logic to bypass 3.

23. Which control structure uses both break and continue?

   a. if

   b. for

   c. class

   d. method

Ans: b. for

Explanation: Both keywords are valid in loops like for.

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24. What happens if break is used outside any loop/switch?

    a. Skipped

    b. Ignored

    c. Compilation error

    d. Infinite

Ans: c. Compilation error

Explanation: Invalid usage results in an error.

25. What's the difference between continue and break?

    a. Both exit

    b. One skips, one stops

    c. No difference

    d. Only use in a switch

Ans: b. One skips, one stops

Explanation: break stops the loop, continue skips iteration.

26. Which loop type supports break and continue?

    a. while

    b. for

    c. do-while

    d. All

Ans: d. All

Explanation: Both statements can be used in any loop.

27. How can you stop an infinite while(true) loop?

    a. Use return

    b. Use break

    c. Use pass

    d. Use continue

Ans: b. Use break

Explanation: break is the only way to exit manually.