

Which of the following operators is used to perform addition in Java?

- a) +
- b) *
- c) /
- d) -

Answer: a) +

What is the result of the expression `10 % 3` in Java?

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

Answer: b) 1

What is the output of the following code snippet?

```
code
int x = 5;
int y = x++;
System.out.println(y);
```

- a) 5
- b) 6
- c) Compilation error
- d) Runtime error

Answer: a) 5

Which of the following statements is used to execute a block of code only if a certain condition is true?

- a) if statement
- b) while loop
- c) for loop
- d) do-while loop

Answer: a) if statement

What is the result of the following code snippet?

```
java
Copy code
int i = 0;
while (i < 5) {
    System.out.print(i + " ");
    i++;
}
```

- a) 0 1 2 3 4

- b) 1 2 3 4 5
- c) 0 1 2 3 4 5
- d) 1 2 3 4

Answer: a) 0 1 2 3 4

What is the output of the following code snippet?

```
java
Copy code
int i = 5;
do {
    System.out.print(i + " ");
    i++;
} while (i < 5);
```

- a) 5
- b) 5 6
- c) Compilation error
- d) Runtime error

Answer: b) 5 6

How many times will the following for loop iterate?

```
java
Copy code
for (int i = 0; i < 3; i++) {
    System.out.println("Hello");
}
```

- a) 1
- b) 2
- c) 3
- d) Infinite loop

Answer: c) 3

What is the output of the following code snippet?

```
java
Copy code
for (int i = 0; i < 3; i++) {
    if (i == 1) {
        continue;
    }
    System.out.print(i + " ");
}
```

- a) 0 1 2
- b) 0 2

- c) 1 2
- d) Compilation error

Answer: b) 0 2

Which keyword is used to exit from a loop in Java?

- a) break
- b) continue
- c) return
- d) exit

Answer: a) break

What is the output of the following code snippet?

```
java
Copy code
int i = 0;
while (i < 3) {
    System.out.println("Hello");
    i++;
}
```

- a) Hello
- b) Hello Hello Hello
- c) Compilation error
- d) Runtime error

Answer: b) Hello Hello Hello

Which of the following operators is used to perform logical AND in Java?

- a) &&
- b) ||
- c) !
- d) &

Answer: a) &&

What is the output of the following code snippet?

```
java
Copy code
int x = 10;
if (x > 5) {
    System.out.println("x is greater than 5");
} else {
    System.out.println("x is less than or equal to 5");
}
```

- a) x is greater than 5

- b) x is less than or equal to 5
- c) Compilation error
- d) Runtime error

Answer: a) x is greater than 5

Which of the following control structures is used to execute a block of code repeatedly as long as a condition is true?

- a) if statement
- b) while loop
- c) for loop
- d) do-while loop

Answer: b) while loop

What is the output of the following code snippet?

```
java
Copy code
for (int i = 0; i < 5; i++) {
    if (i == 3) {
        break;
    }
    System.out.print(i + " ");
}
a) 0 1 2 3
b) 0 1 2
c) 1 2 3
d) 0 1 2 3 4
```

Answer: b) 0 1 2

Which of the following operators is used to perform logical NOT in Java?

- a) &&
- b) ||
- c) !
- d) &

Answer: c) !