

1. What is the value of “x” after the following code snippet executes?

```
int x = 5;  
x++;
```

Explanation: The initial value of “x” is 5. The post-increment operator (x++) is applied to “x”, which increments the value of “x” by 1. After the operation, the value of “x” becomes 6.

2. What is the value of “y” after the following code snippet executes?

```
int y = 3;  
int x = y++;
```

Explanation: The initial value of “y” is 3. The post-increment operator (y++) is applied to “y” during the assignment to “x”. Therefore, the original value of “y” (3) is assigned to “x”, and then “y” is incremented by 1. After the operation, the value of “y” becomes 4.

3. What is the value of “x” after the following code snippet executes?

```
int x = 2;  
int y = x++ + ++x;
```

Explanation: The initial value of “x” is 2. In the expression `x++ + ++x`, the post-increment operator (`x++`) is applied to the first occurrence of “x” and the pre-increment operator (`++x`) is applied to the second occurrence of “x”. The post-increment operator returns the original value of “x” (2) and then increments “x” by 1. The pre-increment operator increments “x” by 1 and returns the updated value (4). Therefore, the expression evaluates to `2 + 4`, resulting in 6. After the operation, the value of “x” becomes 4.

4. What is the output of the following code snippet?

```
int x = 2;  
System.out.println(x++);  
System.out.println(x);
```

Explanation: The initial value of “x” is 2. In the first `println` statement, the post-increment operator (`x++`) is applied to “x”. The original value of “x” (2) is printed, and then “x” is incremented by 1. Therefore, the output is 2. In the second `println` statement, the updated value of “x” (3) is printed. Therefore, the output is 3.

5. What is the value of “y” after the following code snippet executes?

```
int y = 5;  
int x = ++y + y++;
```

Explanation: The initial value of “y” is 5. In the expression `++y + y++`, the pre-increment operator (`++y`) is applied to the first occurrence of “y” and the post-increment operator (`y++`) is applied to the second occurrence of “y”. The pre-increment operator increments “y” by 1 and returns the updated value (6). The post-increment operator returns the original value of “y” (5) and then increments “y” by 1. Therefore, the expression evaluates to $6 + 5$, resulting in 11. After the operation, the value of “y” becomes 6.

6. What is the value of “x” after the following code snippet executes?

```
int x = 3;  
x = ++x + x++;
```

Explanation: The initial value of “x” is 3. In the expression `++x + x++`, the pre-increment

operator ($++x$) is applied to the first occurrence of "x" and the post-increment operator ($x++$) is applied to the second occurrence of "x". The pre-increment operator increments "x" by 1 and returns the updated value (4). The post-increment operator returns the original value of "x" (4) and then increments "x" by 1. Therefore, the expression evaluates to $4 + 4$, resulting in 8. After the operation, the value of "x" becomes 4.

7. What is the output of the following code snippet?

```
int x = 2;  
System.out.println(++x + x++);
```

Explanation: The initial value of "x" is 2. In the println statement, the pre-increment operator ($++x$) is applied to the first occurrence of "x" and the post-increment operator ($x++$) is applied to the second occurrence of "x". The pre-increment operator increments "x" by 1 and returns the updated value (3). The post-increment operator returns the original value of "x" (3) and then increments "x" by 1. Therefore, the expression evaluates to $3 + 3$, resulting in 6. The output will be 6.

8. What is the value of "y" after the following code snippet

executes?

```
int x = 4;  
int y = x++ + ++x;
```

Explanation: The initial value of "x" is 4. In the expression `x++ + ++x`, the post-increment operator (`x++`) is applied to the first occurrence of "x" and the pre-increment operator (`++x`) is applied to the second occurrence of "x". The post-increment operator returns the original value of "x" (4) and then increments "x" by 1. The pre-increment operator increments "x" by 1 and returns the updated value (6). Therefore, the expression evaluates to `4 + 6`, resulting in 10. After the operation, the value of "y" becomes 10.

9. What is the value of "x" after the following code snippet executes?

```
int x = 10;  
int y = x-- - --x;
```

Explanation: The initial value of "x" is 10. In the expression `x-- - --x`, the post-decrement operator (`x--`) is applied to the first occurrence of "x" and the pre-decrement operator (`--x`) is applied to the second occurrence of "x". The post-decrement operator returns the original value of "x" (10) and then decrements "x" by 1. The pre-decrement operator decrements "x" by 1 and returns the updated value (8). Therefore, the expression evaluates to `10 - 8`,

resulting in 2. After the operation, the value of "x" becomes 8.

10. What is the output of the following code snippet?

```
int x = 5;  
System.out.println(x--);  
System.out.println(x);
```

Explanation: The initial value of "x" is 5. In the first println statement, the post-decrement operator (x--) is applied to "x". The original value of "x" (5) is printed, and then "x" is decremented by 1. Therefore, the output is 5. In the second println statement, the updated value of "x" (4) is printed. Therefore, the output is 4.

11. What is the result of the expression

```
x = 5; y = ++x;
```

- a) x = 6, y = 6
- b) x = 6, y = 5
- c) x = 5, y = 6

d) $x = 5, y = 5$

12. What is the value of “x” after the following code snippet executes ?

```
int x = 3;  
int y = x++;
```

- a) 3
 - b) 4
 - c) 5
 - d) 6
-

13. What is the value of “y” after the following code snippet executes?

```
int x = 2;  
int y = x++ + ++x;
```

- a) 4
- b) 5
- c) 6
- d) 7

14. What is the output of the following code snippet?

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

- a) 5, 6
 - b) 6, 6
 - c) 6, 5
 - d) 5, 5
-

15. What is the value of “y” after the following code snippet executes?

```
int x = 2;  
int y = x++ * ++x;
```

- a) 4
- b) 6
- c) 8

d) 10

16. What is the value of “x” after the following code snippet executes?

```
int x = 4;  
x = x++ + ++x;
```

- a) 7
- b) 8
- c) 9
- d) 10

17. What is the output of the following code snippet?

```
int x = 1;  
System.out.println(++x + x++);
```

- a) 4
- b) 5
- c) 6
- d) 7

18. What is the value of “y” after the following code snippet executes?

```
int x = 3;  
int y = ++x + x++;
```

- a) 7
- b) 8
- c) 9
- d) 10

19. What is the value of “x” after the following code snippet executes?

```
int x = 10;  
int y = x-- - --x;
```

- a) 8
- b) 9
- c) 10
- d) 11

20. What is the output of the following code snippet?

```
int x = 5;  
System.out.println(x--);
```

```
System.out.println(x);
```

- a) 5, 4
- b) 5, 5
- c) 4, 4
- d) 4, 5

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61. Write a program that swaps the values of two variables.
62. Write a program that asks the user to enter a number and then calculates and prints its factorial.
63. Write a program that asks the user to enter a number N and then prints the first N numbers in the Fibonacci sequence
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65. Converts a number into integer, float, and string
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67. Program to convert string to uppercase or lowercase
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