

## **Iterative Statements**

## Workbook

## Answer the following

1. How many times the condition is checked in the below code

```
class SampleCode1 {
    public static void main(String[] args) {
        int i = 0;
        while (i < 5) {
            i++;
        }
     }
}</pre>
```

2. What is the output of the below code

3. What is the output of the below code

```
class SampleCode3 { public static void main(String[] args) { int i = 0, j = 0; while (i < 5 && j < 10) { i++; j += 3; }
```



```
System.out.println(i + `` ', + j);
10
4. How many times is the phrase "In the loop" prints?
   class SampleCode4 {
       public static void main(String[] args) {
            int a = 6;
3
            int b = 12;
            while (a < b) {
                System.out.println(''In the loop'');
                a += 2;
                b = 2;
            }
       }
10
11
   }
5. What is the output of the below code
   class SampleCode5 {
       public static void main(String[] args) {
            int x = 2, y = 2;
            while (x \le 5 \&\& y \le 3) {
                System.out.println(++x + '' + ++y);
            }
       }
   }
6. The following program is intended to compute 5! = 120, but it prints
   24 instead. Find out the error in the program?
   class SampleCode6 \{
       public static void main(String[] args) {
            int num = 5;
```



```
int total = 1;
            while (num > 1) {
                total = --num;
            System.out.println(total);
       }
10
7. What would be the output of the below code
   class SampleCode7 {
       public static void main(String[] args) {
            int i = 0;
            while (i < 10) {
                i++;
                System.out.println(''hi'');
            while (i < 8) {
                i++;
10
            System.out.println(''hello'');
11
12
  }
13
8. What would be the output of the belo code when executed
  java ScampleCode8 4525
   class SampleCode8 {
       public static void main(String[] args) {
2
            int num = Integer.parseInt(args[0]);
3
            int count = 0;
            while (\text{num } != 0) {
                num = 10;
                ++count;
```

System.out.println(count);

10

11 }



What	would be the output of the below code?
clas	s SampleCode9 {{
	public static void main(String[] args) {
	$\mathbf{int}  \mathbf{i} = 1,  \mathbf{j},  \mathbf{sum} = 0;$
	$\mathbf{while} \ (i <= 5) \ \{$
	if (i % 2 == 0) {
	j = i * i;
	sum = sum + j;
	; i++;
	}
	System.out.println(sum);
	}
}	,
	<pre>is the output of the below code?  (int j = 0; j &lt; 5; j++) {   for (int k = 0; k &lt; 10; k++) {      System.out.print(''**'); } System.out.println();</pre>
	<pre>would be the output of the below code? (int count = 0; count &lt;= 20; count += 2) System.out.println(count);</pre>



12. What whould be the output of the below code?

```
int x = 0;
while (x < 100) {
    System.out.println(x);
    x = x + 5;
}</pre>
```

13. What will be the output of the below program?

```
int a = 0;
for (int i = 1; i <= 10; i++) {
    a++;
    System.out.println(a);
    if (a == 6)
    break;
}</pre>
```

14. What will be the output of the below program?

```
int a = 0;
for (int i = 1; i <= 10; i++) {
    a++;
    if (a % 2 == 0)
        continue;
    System.out.println(a);
}</pre>
```

15. What would be the output of the below code?

```
class SampleCode10 {
    public static void main(String[] args) {
        int i = 0;
        while (i <= 20) {
          i++;
}</pre>
```



```
if (i = 10)
                     break;
                 System.out.println(i);
            }
        }
10
   }
11
16. What will be the output?
   class SampleCode11 {
        public static void main(String[] args) {
            int i = 0;
            while (i < 10) {
                 i++;
                 if (i = 3 \mid \mid i = 6 \mid \mid i = 9)
                     continue;
                 System.out.println(i);
            }
       }
10
11
17. What is the output of below code?
   class SampleCode12 {
        public static void main(String[] args) {
            int i = 0;
            do {
                 System.out.println(i);
                 i++;
            \} while (i <= 10);
        }
   }
```

18. What is the output of following code?



```
class SampleCode13 {
       public static void main(String[] args) {
            int i = 50;
           do {
                if (i \% 5 == 0)
                    System.out.println(i);
            } while (i >= 10);
       }
9
   }
10
19. What will be the output of this below code
   class SampleCode14 {
       public static void main(String[] args) {
            int i = 40;
           do {
                System.out.println(i);
            } while (i > 0);
       }
   }
20. What will be the output of the below code?
   class SampleCode15 {
       public static void main(String[] args) {
            int x = 15;
           do {
                if (x >= 15)
                    System.out.println(''ONE'');
                else if (x >= 10)
                    System.out.println('' TWO');
                else if (x >= 5)
                    System.out.println('' THREE'');
10
11
                    System.out.println('' FOUR'');
```

x = 5;

 $\}$  while (x);

12

13

14



```
}
16 }
21. What will be the output of the below code?
   class SampleCode16 {
       public static void main(String[] args) {
            int i = 5;
            do {
                System.out.println(i);
                if (i = 5)
                     continue;
                i++;
            } while (i \le 20);
       }
10
  }
11
```