

## **Conditional Statements**

## Workbook

## Answer the following

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

```
\begin{array}{lll} & \textbf{int} & x = 5; \\ & \textbf{if} & (x > 3) \\ & & x = x - 2; \\ & \textbf{else} \\ & & & x = x + 2; \end{array}
```

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

```
int a = 10, b = 5;
if (a > b);
System.out.println(''A is Greater\n'');
else
System.out.println(''B is Greater\n");
```

3. What will be the output of the below code?

```
int x = 5;

if (x < 1)

printf(''value is -ve \setminus n'');

if (x == 5)

printf(''value is 5 \setminus n'');

else

printf(''value is not equal to 5 \setminus n'');
```

4. What would be the output of the below code when executed java SampleCode1  $40\ 20$ 



```
class SampleCode1 {
       public static void main(String[] args) {
           int num1 = Integer.parseInt(args[0]);
           int num2 = Integer.parseInt(args[1]);
           if (num1 > num2)
                System.out.println(num1);
           else
                System.out.println(num2);
       }
9
  }
10
5. Write an expression in line 4, to get the correct output.
   class SampleCode2 {
       public static void main(String[] args) {
           int val1 = Integer.parseInt(args[0]);
       if (_____)
           System.out.println(val1 + " is Even");
       else
           System.out.println(val1 + " is Odd");
  }
8
6. What would be the output of the below code when executed
  java SampleCode3 44 true
   class SampleCode3 {
       public static void main(String[] args) {
           int age = Integer.parseInt(args[0]);
3
           boolean HasVID = Boolean.parseBoolean(args[1]);
           if (age >= 18) {
                if (HasVID)
                    System.out.println(''Eligible to Vote'');
                else
                    System.out.println(''Eligible to Apply'');
           } else {
10
                System.out.println(''Not Eligible'');
11
12
```

}

13



```
14 }
7. What would be the output of the below code?
   class SampleCode4 {
        public static void main(String[] args) {
2
             int w = 4, q = 3;
3
             if (q > 5)
                 if (w = 7)
5
                      w = 3;
                 else
                      w = 2;
             else
                 if (w > 3)
10
                      w = 1;
11
                 else
12
                      w = 0;
             System.out.println(w);
14
        }
15
    }
16
8. What would be the output of the below code when executed
  java SampleCode5 85 77 87
   class SampleCode5 {
       public static void main(String[] args) {
2
             int m1 = Integer.parseInt(args[0]);
             int m2 = Integer.parseInt(args[1]);
4
             int m3 = Integer.parseInt(args[2]);
             int avg = (m1 + m2 + m3) / 3;
             if (m1 >= 35 \&\& m2 >= 35 \&\& m3 >= 35) {
                 if (avg >= 75)
                      System.out.println(''Passed in Distinction'');
                 else
10
                      System.out.println(''Passed'');
11
             } else {
12
```

13 14 System.out.println(''Failed'');



```
9. What would be the output when we execute below code?
   class SampleCode6 {
       public static void main(String[] args) {
            int a = 14, b = 0;
            if (a < 5)
                b = 4;
            else if (a < 10)
                b = 3;
            else if (a > 5)
                b = 2;
            else
10
                b = 1;
11
            System.out.println(b);
12
       }
   }
14
10. What would be the output of the below code when executed
   java SampleCode7 58
   class SampleCode7 {
       public static void main(String[] args) {
            int avg = Integer.parseInt(args[0]);
            if (avg < 40)
                System.out.println(''Failed'');
            else if (avg >= 40)
                System.out.println(''Passed in Third Division'');
            else if (avg >= 50)
                System.out.println(''Passed in Second Division'');
```

}

15

10

12 13 }

System.out.println(''Passed in First Division'');

else if (avg >= 60)



```
11. Write an expression in the space provided to find the number of days
   in a given month?
   java SampleCode8 4
   class SampleCode8 {
       public static void main(String[] args) {
2
           int mon = Integer.parseInt(args[0]);
           if (_____)
                System.out.println(''31 Days'');
           else if (______)
                System.out.println(''28 Days'');
           else
                System.out.println(''30 Days'');
       }
10
   }
11
12. What would be the output of the below code when executed
   java SampleCode9 22
   class SampleCode9 {
       public static void main(String[] args) {
2
           int age = Integer.parseInt(args[0]);
           if (age < 15) {
                System.out.println(''Child'');
           } else if (age >=15 && age <= 19) {
                System.out.println(''Teenager'');
           } else if (age > 19 \&\& age <= 25) {
                System.out.println(''Young'');
           else if (age > 25 \&\& age <= 40) {
10
                System.out.println("Adult");
11
           else if (age > 40 \&\& age <= 60) 
                System.out.println("Middle Age");
13
           } else {
14
                System.out.println("Old Age");
15
```

}

17 18



13. What would be the output of the below code when executed java SampleCodeA 160

```
class SampleCodeA {
       public static void main(String[] args) {
           int unit = Integer.parseInt(args[0]);
3
           int total = 0;
           if (unit <= 100) {
               total = unit * 4;
           } else if (unit > 100 && unit <= 300) {
               total = unit * 4.5;
           else if (unit > 300 \&\& unit <= 500) {
               total = unit * 4.75;
10
           } else {
11
               total = unit * 5;
13
           System.out.println(''Total: '' + total);
14
15
16
```

14. What would be the output for the below code when executed java SampleCodeB 150

```
class SampleCodeB {
       public static void main(String[] args) {
           int x = Integer.parseInt(args[0]);
           if (x >= 100)
                x += 50;
           else if (x >=50)
               x += 20;
           else if (x > 0)
                x += 10;
           else
10
                x = -x;
11
           System.out.println(x);
12
13
14
  }
```

