1) What will be the output of the following program?

```
1  public class IncrementDecrementQuiz
2  {
3      public static void main(String[] args)
4      {
5          int i = 11;
6
7          i = i++ + ++i;
8
9          System.out.println(i);
10     }
11 }
```

View Answer

Answer : 24

Initially, i=11,
i = i++ + ++i
i = (i is used before increment) + (i is used after increment)
i = 11(i=12) + 13(i=13)
i = 11 + 13 = 24

2) Guess the output of the following program?

```
1  public class IncrementDecrementQuiz
2  {
3      public static void main(String[] args)
4      {
5          int a=11, b=22, c;
6
7          c = a + b + a++ + b++ + ++a + ++b;
8
9          System.out.println("a="+a);
10         System.out.println("b="+b);
11         System.out.println("c="+c);
12     }
13 }
```

View Answer

Answer :
a=13
b=24
c=103

Given, a=11, b=22
c = a + b + a++ + b++ + ++a + ++b
c = 11 + 22 + (a is used before increment) + (b is used before increment) + (a is used after increment) + (b is used after increment)
c = 11 + 22 + 11(a=12, b=22) + 22(a=12, b=23) + 13(a=13, b=23) + 24(a=13, b=24)
c = 11 + 22 + 11 + 22 + 13 + 24 = 103 and a=13, b=24

```java
public class IncrementDecrementQuiz
{
    public static void main(String[] args)
    {
        int i=0;

        i = i++ - --i + ++i - i--;

        System.out.println(i);

    }
}
```

View Answer

Answer : 0

initially, i=0
i = i++ – –i + ++i – i–
i = (i is used before increment) – (i is used after decrement) + (i is used after increment) – (i is used before decrement)
i = 0(i=1) – 0(i=0) + 1(i=1) – 1(i=0)
i = 0 – 0 + 1 – 1 = 0

4) Is the below program written correctly?

```
1  public class IncrementDecrementQuiz
2  {
3      public static void main(String[] args)
4      {
5          boolean b = true;
6
7          b++;
8
9          System.out.println(b);
10     }
11 }
```

View Answer

Answer : No. ++ or — can't be applied to boolean types.

5) What will be the output of the below program?

```
1  public class IncrementDecrementQuiz
2  {
3      public static void main(String[] args)
4      {
5          int i=1, j=2, k=3;
6
7          int m = i-- - j-- - k--;
8
9          System.out.println("i="+i);
10         System.out.println("j="+j);
11         System.out.println("k="+k);
12         System.out.println("m="+m);
13     }
14 }
```

View Answer

Answer :
i=0
j=1
k=2
m=-4

Given, i=1, j=2, k=3
m = i– – j– – k–
m = (i is used before decrement) – (j is used before decrement) – (k is used before decrement)
m = 1(i=0) – 2(j=1) – 3(k=2)
m = 1 – 2 – 3
m = -4 and i=0, j=1, k=2