

Q. Identify the errors in the following code segment and fix it.

```
1 public class ClassTest {
2
3     public static void main(String[] args) {
4         int a = 12.25, b;
5         printf("%d", a);
6         b = scan.nextDouble();
7     }
8 }
```

Q. Develop a Java program that takes 5 temperature readings (in Celsius) from the user and stores them in an array. For each temperature, prints a message indicating whether the temperature is:

- "Cold" if it's less than 10
- "Moderate" if it's between 10 and 25 (inclusive)
- "Hot" if it's greater than 25

Q. Identify the errors in the following code segment and fix it.

```
1 public Exercise class{
2
3     public static void main(String[] args) {
4
5         double addr = scanf("%d", &addr);
6         float radius = 11.52f;
7         System.in.print(radius);
8     }
9 }
```

Q. Develop a Java program that asks the user to enter two numbers. The program should create an array containing all the numbers starting from the first number up to the second number (including both). Then, find all the numbers in the array that are divisible by 5 and calculate their average. If no numbers divisible by 5 are found, print "No numbers divisible by 5."

Q. What will be the output of the following code:..

```
1 public class OutputCheck {
2
3     public static void main(String[] args) {
4         int a = //First 2 digits of your ID;
5         int b = //Last 2 digits of your ID;
6         int c = 0;
7         c = ++a * 3 + ++b;
8         System.out.println(a + " , " + b + " , " + c);
9
10    }
11 }
```

Q. Develop a Java program that takes 6 numbers from user input and stores them in an array. Then, print only those numbers which are **greater than the average** of all the numbers in the array.

Q. Develop a Java program that takes 8 integer inputs from the user and stores them in an array. The program should find and display the difference between the maximum and minimum numbers in the array.