Q-1 Write a Java program to check whether a given number is positive, negative, or zero using an if-else statement.

```
import java.util.*;

class Main{
    public static void main(String[] args){
        Scanner sc  = new Scanner(System.in);
        int a = sc.nextInt();
        if(a>0){
            System.out.println("Number is positive");
        }
        else if(a==0){
            System.out.println("Number is zero");
        }
        else{
            System.out.println("Number is negative");
        }
    }
}
```

2. Write a Java program to print the Fibonacci series up to a given number using a for loop.

```
        import java.util.*;
class Main{
    public static void main(String[] args){
        Scanner sc  = new Scanner(System.in);
        int n = sc.nextInt();

        int num1 = 0;
        int num2 = 1;
        System.out.println(num1);
        System.out.println(num2);
        for(int i=0; i<n;  i++){
            int num3 = num1 + num2;
```

```
            num1 = num2;
            num2 = num3;
            System.out.println(num2);
        }
    }
}
```

3. Write a Java program to calculate the average of a list of numbers using a do-while loop.

```
import java.util.*;
class Main{
    public static void main(String[] args){
        Scanner sc  = new Scanner(System.in);
        int n = sc.nextInt();

        int []arr = new int[n];



        for(int i=0; i<n; i++){
            arr[i] = sc.nextInt();
        }
        for(int j = 0; j<arr.length; j++){
            System.out.print(arr[j]);

        }
        System.out.println();
    int i = 0;
    int s = 0;
    do{
        s += arr[i];
        i++;
    }
    while(i<n);
```

```
    double avg;
    avg = s/n;
    System.out.println(avg);




    }
}
```

4. Write a Java program to find the largest of three numbers using nested if-else statements.

```
        import java.util.*;
class Main{
    public static void main(String[] args){
        Scanner sc  = new Scanner(System.in);
        int a = sc.nextInt();
        int b = sc.nextInt();
        int c = sc.nextInt();

        if(a>b && a>c){
            System.out.println("First number is largest");
        }
        else if(b>a && b>c){
            System.out.println("Second number is largest");
        }
        else{
            System.out.println("Third number is largest");
        }

    }
}
```

5. Write a Java program to declare and initialize variables of different data types (int, double, String) with appropriate identifiers.

```
import java.util.*;

class Main{

   public static void main(String[] args){

      Scanner sc = new Scanner(System.in);


      int a = sc.nextInt();

      double b = sc.nextDouble();

    // float number's range is less than double

      String s = sc.nextLine();

      s = sc.nextLine();

      System.out.println("Integer datatype" + a);

      System.out.println("Double datatype" + b);

      System.out.println("String datatype" + s);


   }

}
```