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);

}

}