Core Java Mock Test – 2

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

Sol:-

```java
import java.util.*;
import java.util.Scanner;

public class MockTestQue1 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter the number: ");
        int number = scan.nextInt();
        if (number > 0) {
            System.out.println("Number is positive: " + number);
        } else if (number < 0) {
            System.out.println("Number is negitive: " + number);
        } else {
            System.out.println("Number is zero: " + number);
        }

    }
}
```

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

Sol:-

```java
import java.util.Scanner;

public class MockTestQue2 {
    public static void main(String[] args){
        int n1=0,n2=1,n3,n=10;
        for(int i=0;i<n;i++){
            System.out.print(n1 + " ");
            n3 = n1+n2;
            n1=n2;
            n2=n3;
        }
    }
}
```

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

Sol:-

```
import java.util.Scanner;

public class MockTestQue3 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int sum = 0;
        int count = 0;
        int number;

        do {
            System.out.print("Enter a number (enter 0 to calculate
average): ");
            number = scanner.nextInt();

            if (number != 0) {
                sum += number;
                count++;
            }
        } while (number != 0);

        if (count > 0) {
            double average = (double) sum / count;
            System.out.println("The average is: " + average);
        } else {
            System.out.println("No numbers were entered.");
        }
    }
}
```

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

Sol:-

```
import java.util.Scanner;

public class MockTestQue4 {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);

        System.out.println("Enter number1: ");
        int num1 = scan.nextInt();

        System.out.println("Enter number2: ");
        int num2 = scan.nextInt();
```

```
        System.out.println("Enter number3: ");
        int num3 = scan.nextInt();

        if (num1 >= num2) {
            if (num1 >= num3) {
                System.out.println("Number 1 is largest: " + num1);
            }
            else{
                System.out.println("Number 3 is largest: " + num3);
            }
        }
        else if(num2 >= num1){
            if(num2 >= num3){
                System.out.println("Number 2 is largest: " + num2);
            }
            else{
                System.out.println("Number 3 is largest: " + num3);
            }
        }
        else{
            System.out.println("Number 1 is largest: " + num1);
        }
    }
}
```

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

Sol:-

```
import java.util.*;

public class MockTestQue5 {
    public static void main(String[] args){
        int age = 20;
        double height = 5.88;
        String name = "pankaj gola";

        System.out.println("Name = "+name);
        System.out.println("Age = "+age);
        System.out.println("Height = "+height);
    }
}
```