Assignment – 1

1. Write a program to display your name, branch, roll no, and college name on the computer screen.

```
class Main {
   public static void main(String[] args) {
      System.out.println("Name: Subhasmita Priyadarshini");
      System.out.println("Branch: CSE");
      System.out.println("Roll No: 33");
      System.out.println("College: Silicon University");
   }
}
```

Output:

Name: Subhasmita Priyadarshini
Branch: CSE
Roll No: 33
College: Silicon University

2. Write a program to display the addition result of two numbers 10.25 and 20.55 on the screen.

```
class Main {
   public static void main(String[] args) {
      double x = 10.25, y = 20.55;
      double res = x + y;
      System.out.println("Addition of " + x + " and " + y + " is " + res);
   }
}
```

Output:

Addition of 10.25 and 20.55 is 30.8

3. Write a program to input two floating point numbers through the keyboard and display their sum.

```
import java.util.Scanner;
class Main {
   public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter two floating point numbers: ");
```

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```
        double x = sc.nextDouble();
        double y = sc.nextDouble();
        double res = x + y;
        System.out.println("The sum of " + x + " and " + y + " is " + res);
    }
}
```

Output:

```
Enter two floating point numbers: 10.25 20.55
The sum of 10.25 and 20.55 is 30.8
```

4. Write a program to swap two numbers without using a third variable.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter two numbers x and y: ");
        int x = sc.nextInt();
        int y = sc.nextInt();
        x += y;
        y = x - y;
        x -= y;
        System.out.println("After swapping x: " + x + " and y: " + y);
    }
}
```

Output:

```
Enter two numbers x and y: 10 20
After swapping x: 20 and y: 10
```

5. Write a program to check a number is odd or even.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();

        if (num % 2 == 0) {
            System.out.println(num + " is even number");
        } else {
```

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```
            System.out.println(num + " is odd number");
        }
    }
}
```

Output:

```
Enter a number: 7
7 is odd number
```

6. Write a program to input the marks of a student in three different subjects and then display the average mark.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter your marks in English: ");
        double english = sc.nextDouble();
        System.out.print("Enter your marks in Maths: ");
        double maths = sc.nextDouble();
        System.out.print("Enter your marks in Science: ");
        double science = sc.nextDouble();
        double average = (english + maths + science) / 3;
        System.out.println("The average marks in 3 subjects is " + average);
    }
}
```

Output:

```
Enter your marks in English: 91
Enter your marks in Maths: 95
Enter your marks in Science: 97
The average marks in 3 subjects is 94.33333333333333
```

7. Write a program to input the time value in seconds and then display it in the hour: minute: second format using the modulus operator (%).
For example, INPUT: Enter the time in second: 3610
OUTPUT: 1 hour: 0 minutes: 10 seconds

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter time in seconds: ");
```

```
        int seconds = sc.nextInt();
        int hours = seconds / 3600;
        seconds %= 3600;
        int minutes = seconds / 60;
        seconds %= 60;
        System.out.println(hours + " hours: " + minutes + " minutes: " + seconds + "
seconds");
    }
}
```

Output:

```
Enter time in seconds: 3610
1 hours: 0 minutes: 10 seconds
```

8. Write a program to reverse a number.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();
        int reversed = 0;

        while (num != 0) {
            reversed = reversed * 10 + (num % 10);
            num /= 10;
        }
        System.out.println("The reversed number is " + reversed);
    }
}
```

Output:

```
Enter a number: 1597
The reversed number is 7951
```

9. Write a program to check a number is prime or not.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
```

```
        int num = sc.nextInt();

        for (int i = 2; i <= num / 2; i++) {
            if (num % i == 0) {
                System.out.println(num + " is not a prime number");
                return;
            }
        }
        System.out.println(num + " is a prime number");
    }
}
```

Output:

```
Enter a number: 7
7 is a prime number
```

10. Write a program to find out the sum of the individual digits of a number.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();
        int sum = 0;

        while (num != 0) {
            sum += num % 10;
            num /= 10;
        }
        System.out.println("The sum of the digits is " + sum);
    }
}
```

Output:

```
Enter a number: 1597
The sum of the digits is 22
```

11. Write a program to check whether an inputted number is positive or negative.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
```

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```
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();

        if (num < 0) {
            System.out.println(num + " is negative number");
        } else {
            System.out.println(num + " is positive number");
        }
    }
}
```

Output:

```
Enter a number: -7
-7 is negative number
```

12. Write a program to test whether a number is positive, negative or equal to zero.

```
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = sc.nextInt();

        if (num < 0) {
            System.out.println(num + " is negative number");
        } else if (num > 0) {
            System.out.println(num + " is positive number");
        } else {
            System.out.println(num + " is a zero");
        }
    }
}
```

Output:

```
Enter a number: 0
0 is a zero
```

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