

## ASSIGNMENT 1

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

```
import java.util.Scanner;

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

        System.out.print("Enter your name: ");
        String name = sc.nextLine();

        System.out.print("Enter your branch: ");
        String branch = sc.nextLine();

        System.out.print("Enter your roll no: ");
        String rollNo = sc.nextLine();

        System.out.print("Enter your college name: ");
        String college = sc.nextLine();

        System.out.println("Name      : " + name);
        System.out.println("Branch   : " + branch);
        System.out.println("Roll No  : " + rollNo);
        System.out.println("College  : " + college);

    }
}
```

Output:

```
Enter your name: Lipsa Panda
Enter your branch: CSE
Enteryourrollno.:29
Enteryourcollegename:SiliconUniversity
Name: Lipsa Panda
Branch: CSE
Roll No:29
College: Silicon University
```

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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 30.80

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: ");  
        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:4.5  
2.3

The sum of 4.5 and 2.3 is 6.8

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) {
```

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```

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:5  
6

After swapping x:6 and y:5

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

```

Output:

Enter a number:6  
6 is even number

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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:80
Enter your marks in Maths:90
Enter your marks in Science:90
The average marks in 3 subjects is 86.66
```

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) {
```

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```

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:8630  
2 hours 23 minutes 53 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:56  
The reversed number is 65

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

```

import java.util.Scanner;

```

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```

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:122  
The sum of the digits is 5

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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) {
        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: -12  
-12 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: 12  
12 is positive number

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