Assignment – 1

Q1. 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: Padmalaya meher");
      System.out.println("Branch: CSE");
      System.out.println("Roll No: 01");
      System.out.println("College: Silicon University");
   }
}
```

Output:

Name: Padmalaya Meher

Branch: CSE

Roll.no: 01

College : Silicon University

Q2. 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, res = x + y;
      System.out.println("Addition of " + x + " and " + y + " is " + res);
   }
}
```

Output:

Addition of 10.25 and 20.55 is 30.8

Q3. 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();
```

Name: Padmalaya Meher
SIC No: 25bcsl48
Lab Roll No: 01
Date of Experiment: 18th August 2025

```
        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
```

Q4. 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
```

Q5. 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");
    }
```

Name: Padmalaya Meher
SIC No: 25bcsl48
Lab Roll No: 01
Date of Experiment: 18/08/2025

```
  }
}
```

Output:

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

Q6. 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
```

Q7. 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;
```

Name: Padmalaya Meher
Slc: 25bcsl48
Roll no: 01
Date of Experiment: 18/08/2025

```
        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
```

Q8. 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
```

Q9. 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");
```

Name: Padmalaya Meher
SIC No: 25bcsl48
Lab Roll No: 01
Date of Experiment: 18/08/ 2025

```
            return;
          }
        }
        System.out.println(num + " is a prime number");
    }
}
```

Output:

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

Q10. 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
```

Q11. 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");
```

Name: Padmalaya Meher
SIC No: 25bcsl48
Lab Roll No: 01
Date of Experiment: 18/08/2025

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

Output:

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

Q12. 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
```

Name: Padmalaya Meher
SIC No: 25bcsl48
Lab Roll No: 01
Date of Experiment: 18/08/2025