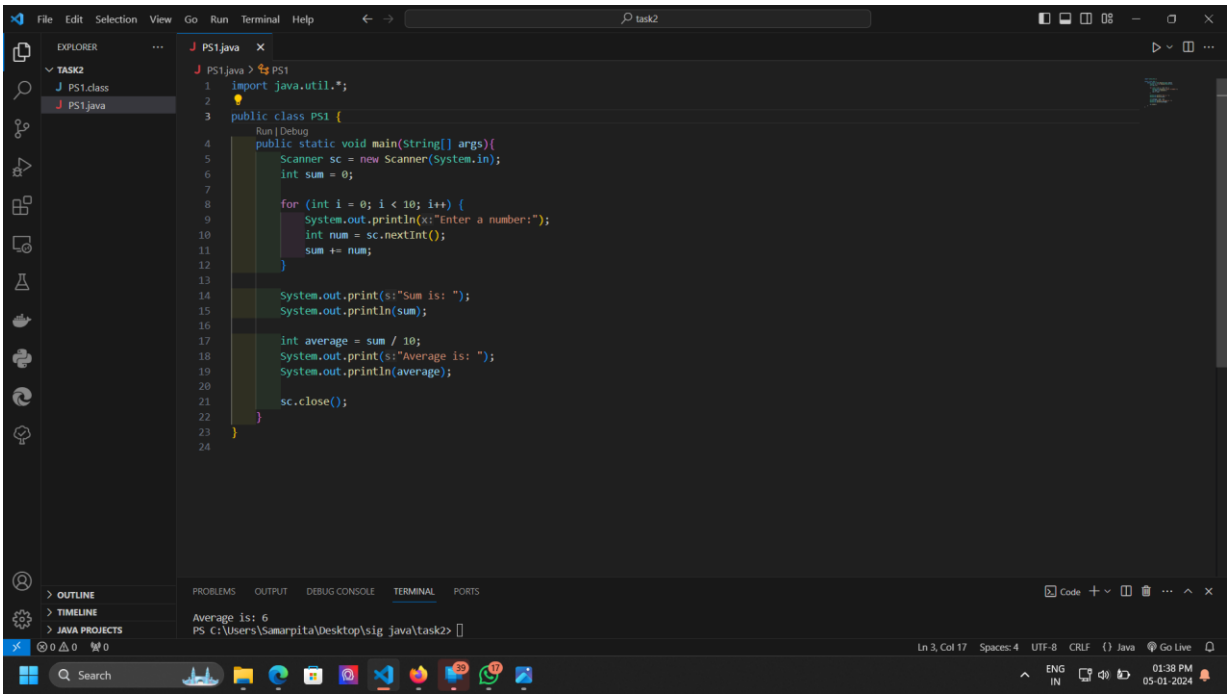
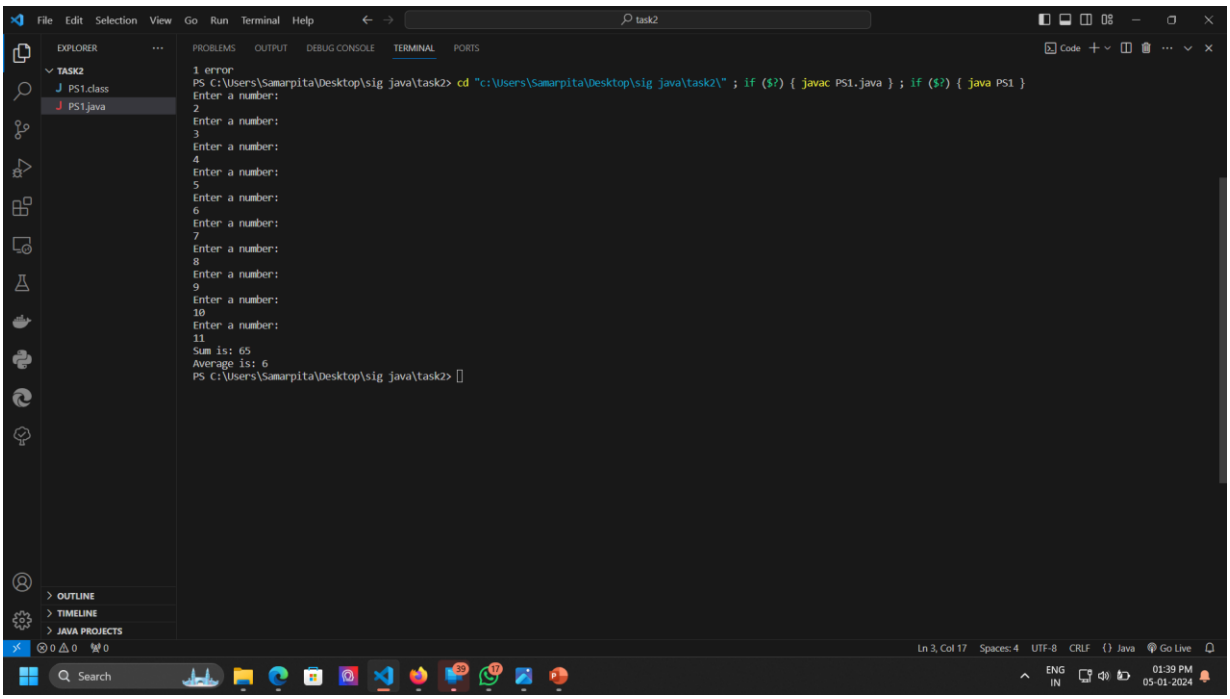
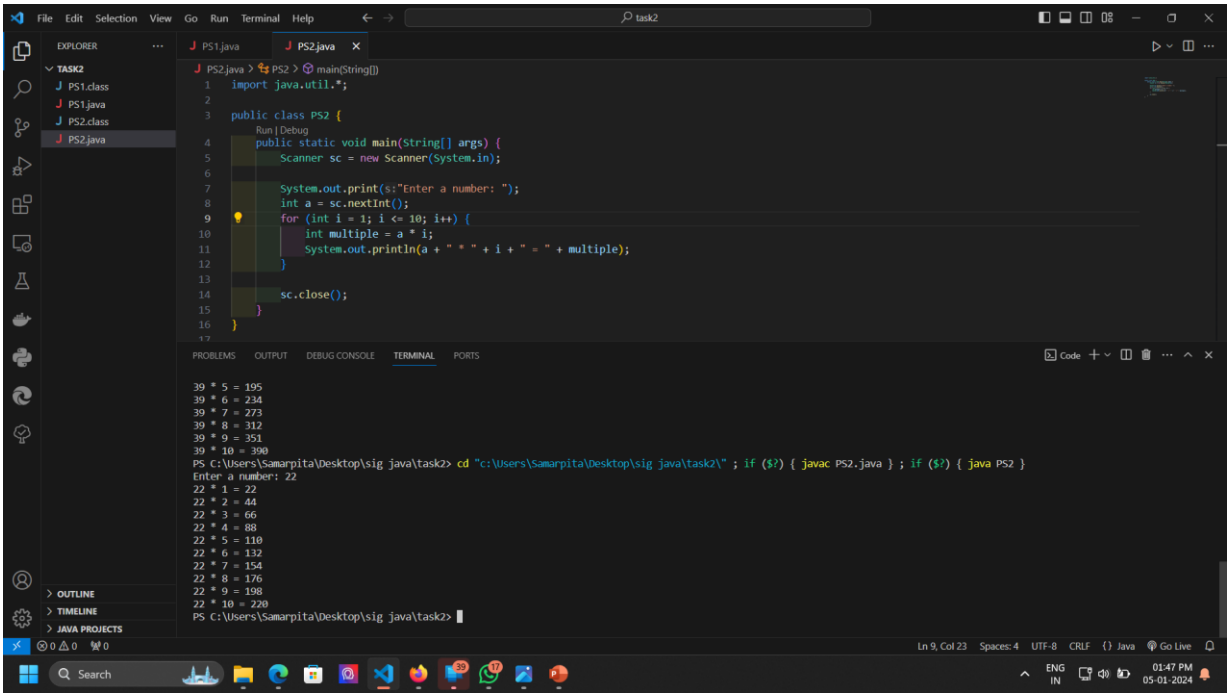
TASK 02

1. WAP to read 10 numbers from the keyboard and find their sum and
average.





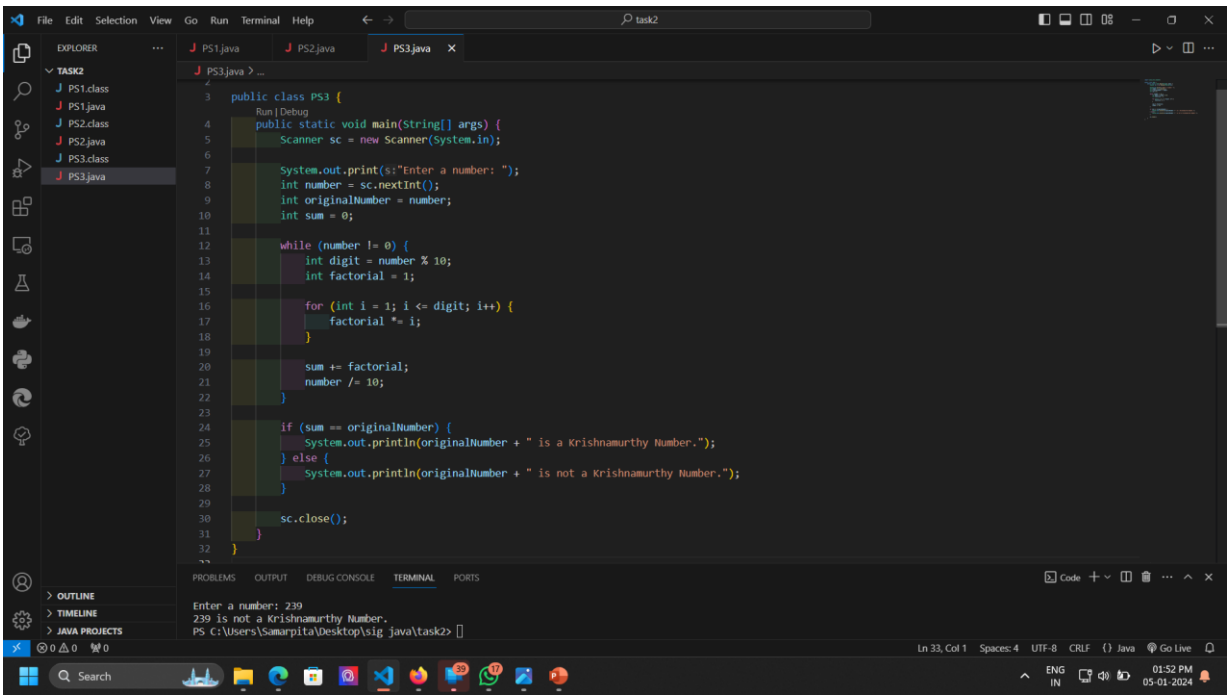
2. WAP to display the multiplication table for a given integer.



```java
import java.util.*;

public class PS2 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter a number: ");
        int a = sc.nextInt();
        for (int i = 1; i <= 10; i++) {
            int multiple = a * i;
            System.out.println(a + " * " + i + " = " + multiple);
        }

        sc.close();
    }
}
```

```
39 * 5 = 195
39 * 6 = 234
39 * 7 = 273
39 * 8 = 312
39 * 9 = 351
39 * 10 = 390
PS C:\Users\Samarpita\Desktop\sig java\task2> cd "c:\Users\Samarpita\Desktop\sig java\task2\" ; if ($?) { javac PS2.java } ; if ($?) { java PS2 }
Enter a number: 22
22 * 1 = 22
22 * 2 = 44
22 * 3 = 66
22 * 4 = 88
22 * 5 = 110
22 * 6 = 132
22 * 7 = 154
22 * 8 = 176
22 * 9 = 198
22 * 10 = 220
PS C:\Users\Samarpita\Desktop\sig java\task2>
```

3. WAP to check whether a number is Krishnamurthy Number or not.



```java
public class PS3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter a number: ");
        int number = sc.nextInt();
        int originalNumber = number;
        int sum = 0;

        while (number != 0) {
            int digit = number % 10;
            int factorial = 1;

            for (int i = 1; i <= digit; i++) {
                factorial *= i;
            }

            sum += factorial;
            number /= 10;
        }

        if (sum == originalNumber) {
            System.out.println(originalNumber + " is a Krishnamurthy Number.");
        } else {
            System.out.println(originalNumber + " is not a Krishnamurthy Number.");
        }

        sc.close();
    }
}
```

```
Enter a number: 239
239 is not a Krishnamurthy Number.
PS C:\Users\Samarpita\Desktop\sig java\task2>
```

4. WAP to display a pattern like a right angle triangle using an asterisk.

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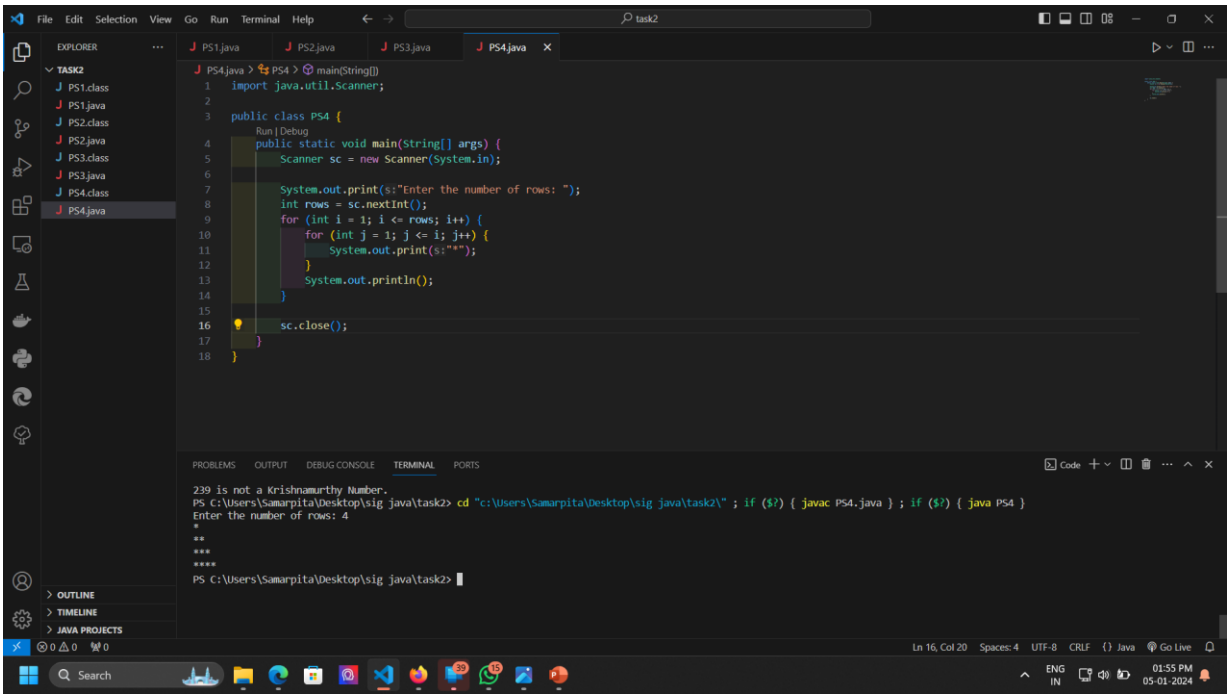

5. Diffrence between while Loop and do while Loop with proper syntax and example.

While loop	Do while loop
In a while loop, the condition is checked before the loop body is executed. If the condition is initially false, the loop body may not execute at all.	In a do-while loop, the loop body is executed at least once before checking the condition. This guarantees that the loop body is executed at least once, regardless of the condition's initial evaluation.

SYNTAX
while (condition) {
// loop body
}
	SYNTAX
	do {
	// loop body
	} while (condition);