# Project-4:

Question 1:

```java
// ComputeMethods.java
public class ComputeMethods {

    // Method to convert Fahrenheit to Celsius
    public double fToC(double degreesF) {
        double celsius = (degreesF - 32) * 5.0 / 9.0;
        return celsius;
    }

    // Method to calculate the hypotenuse of a right-angled triangle
    public double hypotenuse(int a, int b) {
        double hypotenuse = Math.sqrt(a * a + b * b);
        return hypotenuse;
    }

    // Method to simulate rolling a six-sided die
    public int roll() {
        int dieRoll = (int) (Math.random() * 6) + 1;
        return dieRoll;
    }

    // Main method for testing purposes
    public static void main(String[] args) {
        // Create an instance of ComputeMethods
        ComputeMethods cm = new ComputeMethods();

        // Invoke the fToC method and display the result
        double tempF = 100.0;
        double tempC = cm.fToC(tempF);
        System.out.println("Temperature in Celsius: " + tempC);

        // Invoke the hypotenuse method and display the result
        int sideA = 3;
        int sideB = 4;
```

```java
        double hypotenuse = cm.hypotenuse(sideA, sideB);
        System.out.println("Hypotenuse: " + hypotenuse);

        // Invoke the roll method and display the result
        int rollResult = cm.roll();
        System.out.println("Rolled a die: " + rollResult);
    }
}
```
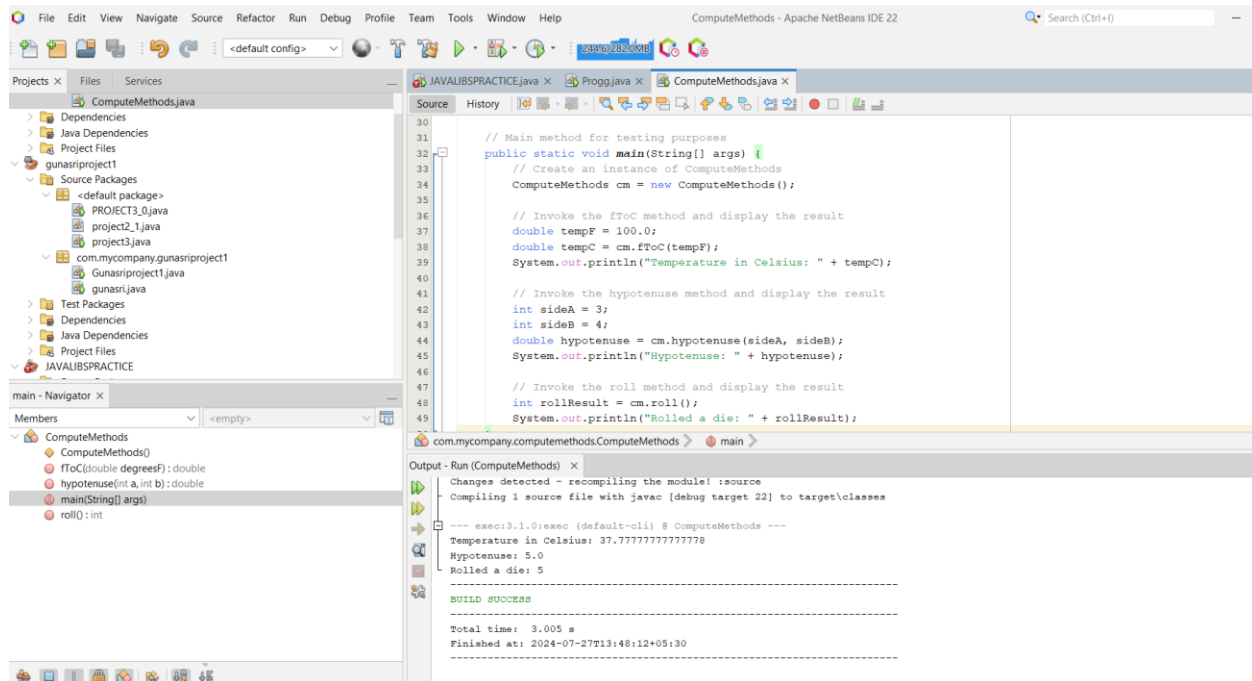


## Question 2:

```java
public class ProcessName {
    public static void main(String[] args) {
        // Hardcoded name for demonstration
        String fullName = "Jenny Weaver";

        // Extract the first and last name
        String[] nameParts = fullName.split(" ");
        String firstName = nameParts[0];
```

```java
        String lastName = nameParts[1];

        // Get the first initial of the first name
        String firstInitial = firstName.substring(0, 1);

        // Display the name in the specified format
        System.out.println("Your name is: " + lastName + ", " + firstInitial + ".");
    }
}
```