MODULE-2

SEC-2

Main.java

```java

public class helloworld {
    static public void main(String[] args) {
        System.out.println("  ****  ");
        System.out.println(" *    * ");
        System.out.println("* *  * *");
        System.out.println("*      *");
        System.out.println("* *  * *");
        System.out.println("*  **  *");
        System.out.println(" *    * ");
        System.out.println("  ****  ");

    }

```

Output

```
java -cp /tmp/p4PjwHI6Rp/helloworld
  ****
 *    *
* *  * *
*      *
* *  * *
*  **  *
 *    *
  ****

=== Code Execution Successful ===
```

Main.java

```java
class Helloworld {
    public static void main(String[] args) {
        System.out.println("  /\\     /\\  ");
        System.out.println(" /  \\   /  \\ ");
        System.out.println("/    ---    \\ ");
        System.out.println("(  /\\    /\\  )");
        System.out.println("====   v   ===");
        System.out.println("====()|()===");
            System.out.println("(           )");
        System.out.println("  () ");

}
}
```

Output

```
java -cp /tmp/dWdUBKgKCn/Helloworld
  /\     /\
 /  \   /  \
/    ---    \
(  /\    /\  )
====   v   ===
====()|()===
(           )
  ()

=== Code Execution Successful ===
```

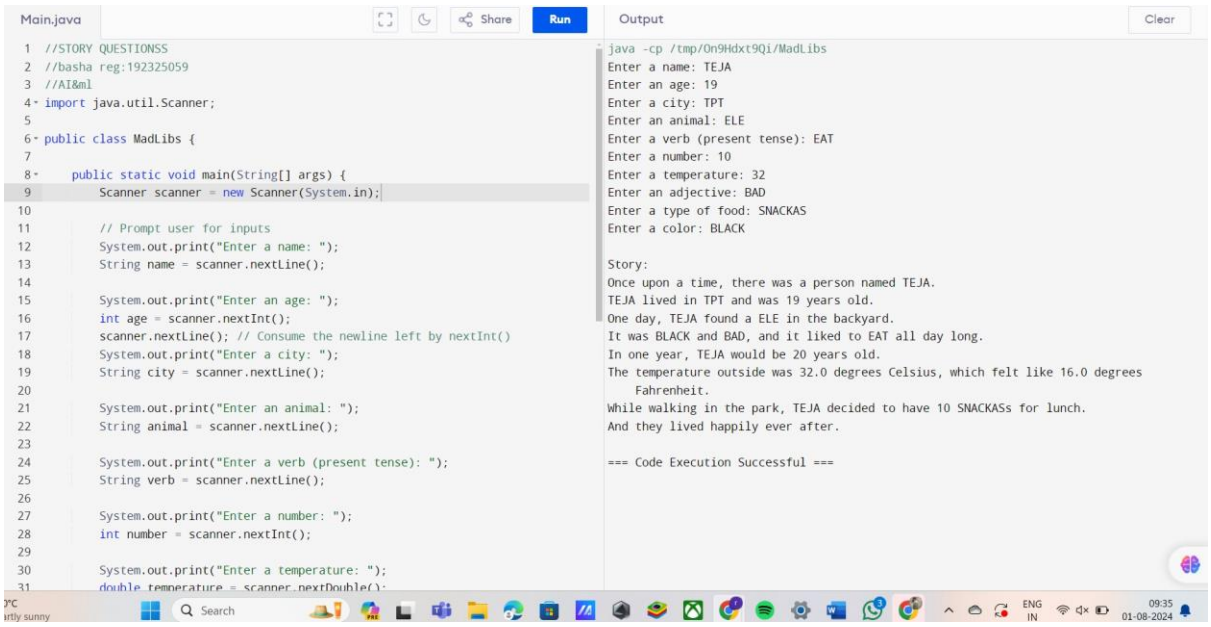
Main.java

```java
//SANKE--QUESTION
//SHAIK JABBAR BASHA
class Customer {
    private String name;
    private int accountNumber;
    private double satisfactionRating;

    public Customer(String name, int accountNumber, double satisfactionRating)
        {
        this.name = name;
        this.accountNumber = accountNumber;
        this.satisfactionRating = satisfactionRating;
    }

    public void placeOrder(Order order) {
        System.out.println(name + " placed an order with ID: " + order
            .getOrderId());
    }

    public void trackOrder(Order order) {
        System.out.println("Order " + order.getOrderId() + " is currently " +
            order.getStatus());
    }

    public void provideFeedback(double rating) {
        this.satisfactionRating = rating;
        System.out.println(name + " provided feedback. New satisfaction rating
            : " + rating);
    }
}
```

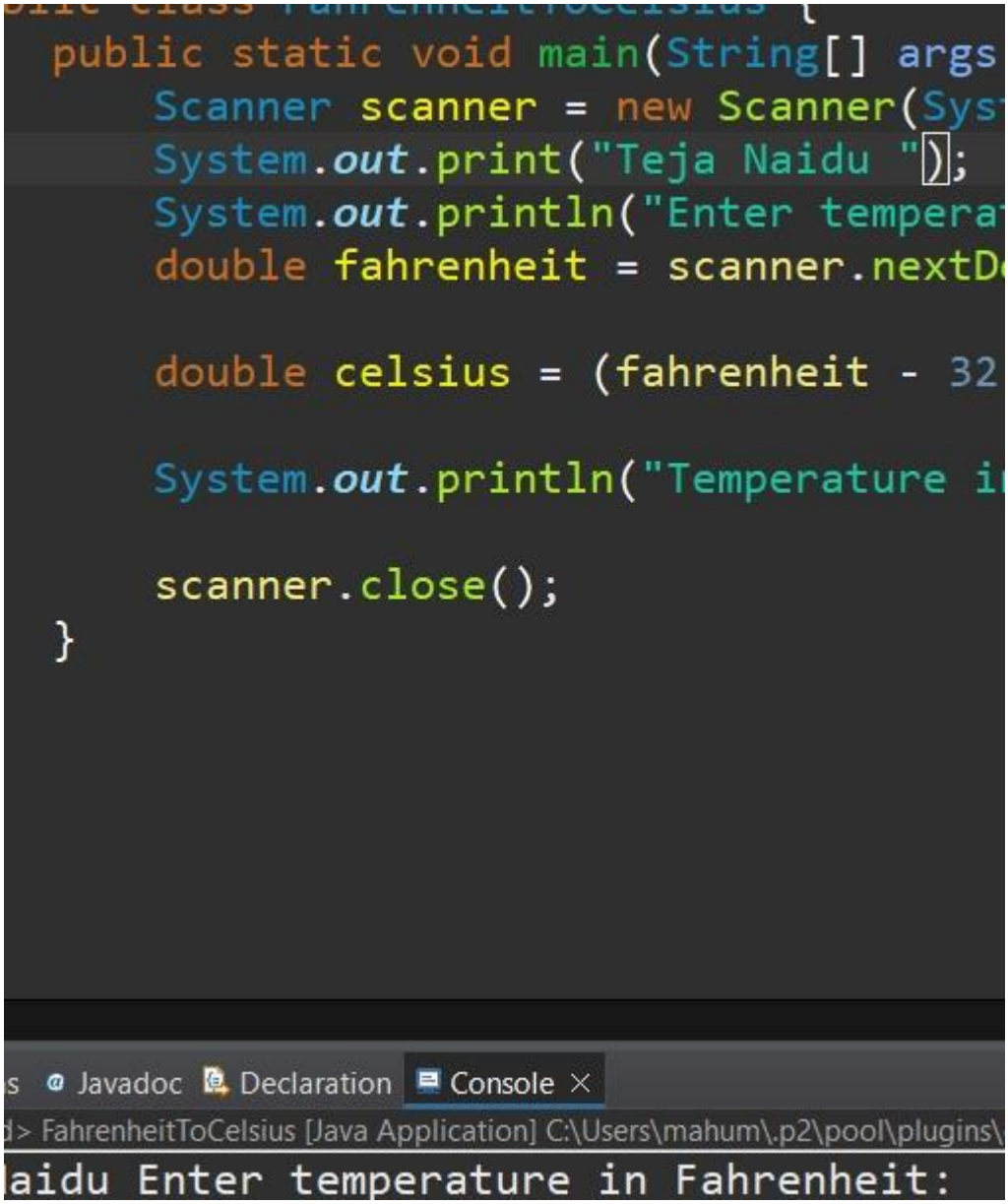
Output

```
java -cp /tmp/GTLbavN29P/SnakeBoxFactory
Alice placed an order with ID: 2001
Invoice for Order 2001:
Box Size: Large
Snake Type: Python
Total Cost: $170.0
Carrier Snake 1 is transporting order 2001
Carrier Snake 1 is at the dispatch center.
Order 2001 status updated to Shipped
Order 2001 is currently Shipped
Alice provided feedback. New satisfaction rating: 4.8

=== Code Execution Successful ===
```

SEC-3


Main.java
Share
Run
Output
Clear
//STORY QUESTIONSS
//basha reg:192325059
//AI&ml
import java.util.Scanner;
public class MadLibs {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
// Prompt user for inputs
System.out.print("Enter a name: ");
String name = scanner.nextLine();
System.out.print("Enter an age: ");
int age = scanner.nextInt();
scanner.nextLine(); // Consume the newline left by nextInt()
System.out.print("Enter a city: ");
String city = scanner.nextLine();
System.out.print("Enter an animal: ");
String animal = scanner.nextLine();
System.out.print("Enter a verb (present tense): ");
String verb = scanner.nextLine();
System.out.print("Enter a number: ");
int number = scanner.nextInt();
System.out.print("Enter a temperature: ");
java -cp /tmp/On9Hdxt9Qi/MadLibs
Enter a name: TEJA
Enter an age: 19
Enter a city: TPT
Enter an animal: ELE
Enter a verb (present tense): EAT
Enter a number: 10
Enter a temperature: 32
Enter an adjective: BAD
Enter a type of food: SNACKAS
Enter a color: BLACK
Story:
Once upon a time, there was a person named TEJA.
TEJA lived in TPT and was 19 years old.
One day, TEJA found a ELE in the backyard.
It was BLACK and BAD, and it liked to EAT all day long.
In one year, TEJA would be 20 years old.
The temperature outside was 32.0 degrees Celsius, which felt like 16.0 degrees Fahrenheit.
While walking in the park, TEJA decided to have 10 SNACKASs for lunch.
And they lived happily ever after.
=== Code Execution Successful ===
Search
ENG
IN
09:35
01-08-2024

SEC-4


public static void main(String[] args
Scanner scanner = new Scanner(Syst
System.out.print("Teja Naidu ");
System.out.println("Enter temperat
double fahrenheit = scanner.nextD
double celsius = (fahrenheit - 32
System.out.println("Temperature i
scanner.close();
}
Javadoc
Declaration
Console
> FahrenheitToCelsius [Java Application] C:\Users\mahum\.p2\pool\plugins\
laidu Enter temperature in Fahrenheit:

```java
package packagejava;

import java.util.Scanner;

public class HypotenuseCalculator {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Teja Naidu ");
        System.out.print("Enter the length of the first side: ");
        double side1 = scanner.nextDouble();

        System.out.print("Enter the length of the second side: ");
        double side2 = scanner.nextDouble();

        double hypotenuse = Math.sqrt(Math.pow(side1, 2) + Math.pow(side2, 2));

        System.out.println("The length of the hypotenuse is: " + hypotenuse);

        scanner.close();
    }
}
```

Problems Javadoc Declaration Console

<terminated> HypotenuseCalculator [Java Application] C:\Users\mahum\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_22.0.1.v20240426-1149\jr

```
Teja Naidu
Enter the length of the first side: 10
Enter the length of the second side: 25
The length of the hypotenuse is: 26.92582403567252
```

```java
package packagejava;

import java.util.Random;

public class DiceRoll {
    public static void main(String[] args) {
        Random random = new Random();

        System.out.println("Teja Naidu ");

        int die1 = random.nextInt(6) + 1;

        int die2 = random.nextInt(6) + 1;

        int sum = die1 + die2;

        System.out.println("Roll of first die: " + die1);
        System.out.println("Roll of second die: " + die2);
        System.out.println("Sum of both dice: " + sum);
    }
}
```

Problems Javadoc Declaration Console ×

<terminated> DiceRoll [Java Application] C:\Users\mahum\.p2\pool\plugins\org.eclipse.justj.open

```
Teja Naidu
Roll of first die: 1
Roll of second die: 1
Sum of both dice: 2
```

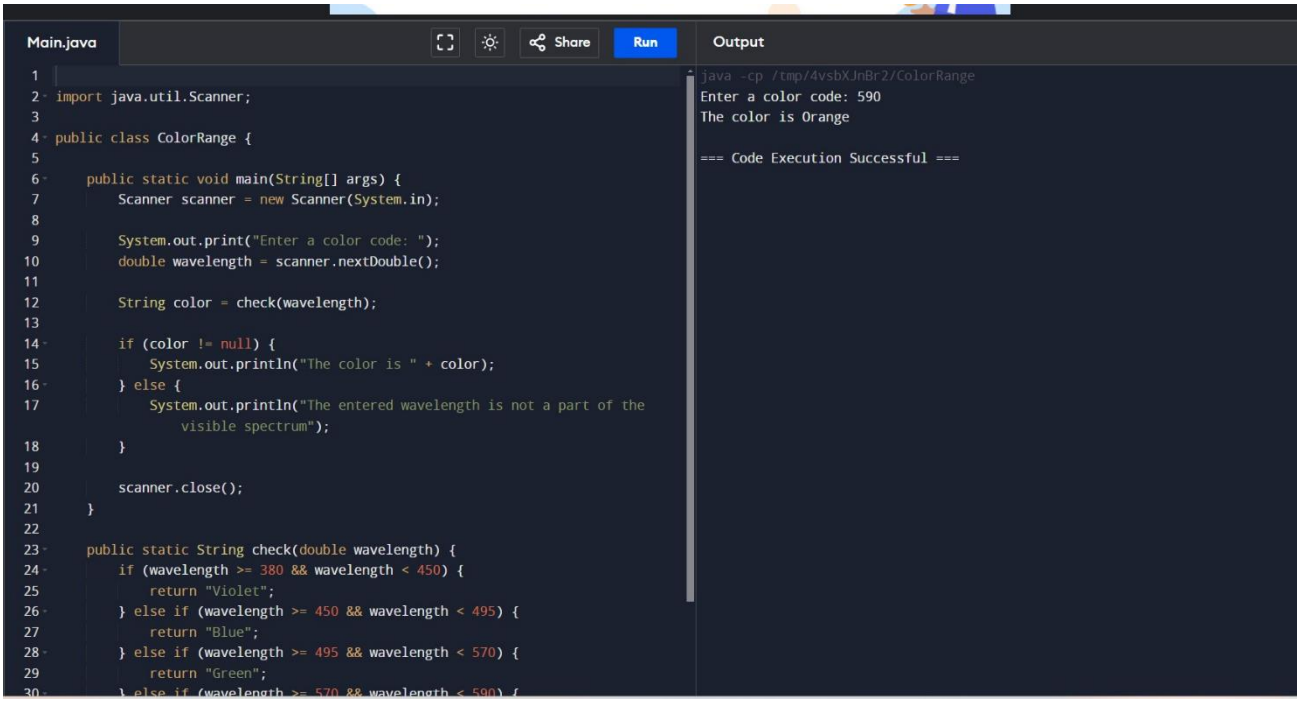
```java
package packagejava;

public class CombinedFile {

    public static void main(String[] args) {
        ComputeMethods cm = new ComputeMethods();

        System.out.print("Teja Naidu ");

        double tempF = 100.0;
        double tempC = cm.fToC(tempF);
        System.out.println("Temperature in Celsius: " + tempC);

        int side1 = 3;
        int side2 = 4;
        double hypotenuse = cm.hypotenuse(side1, side2);
        System.out.println("Hypotenuse: " + hypotenuse);

        int dieRoll = cm.roll();
        System.out.println("Die roll result: " + dieRoll);
    }
}

class ComputeMethods {

    public double fToC(double degreesF) {
        return (degreesF - 32) * 5.0 / 9.0;
    }

    public double hypotenuse(int a, int b) {
        return Math.sqrt(a * a + b * b);
```

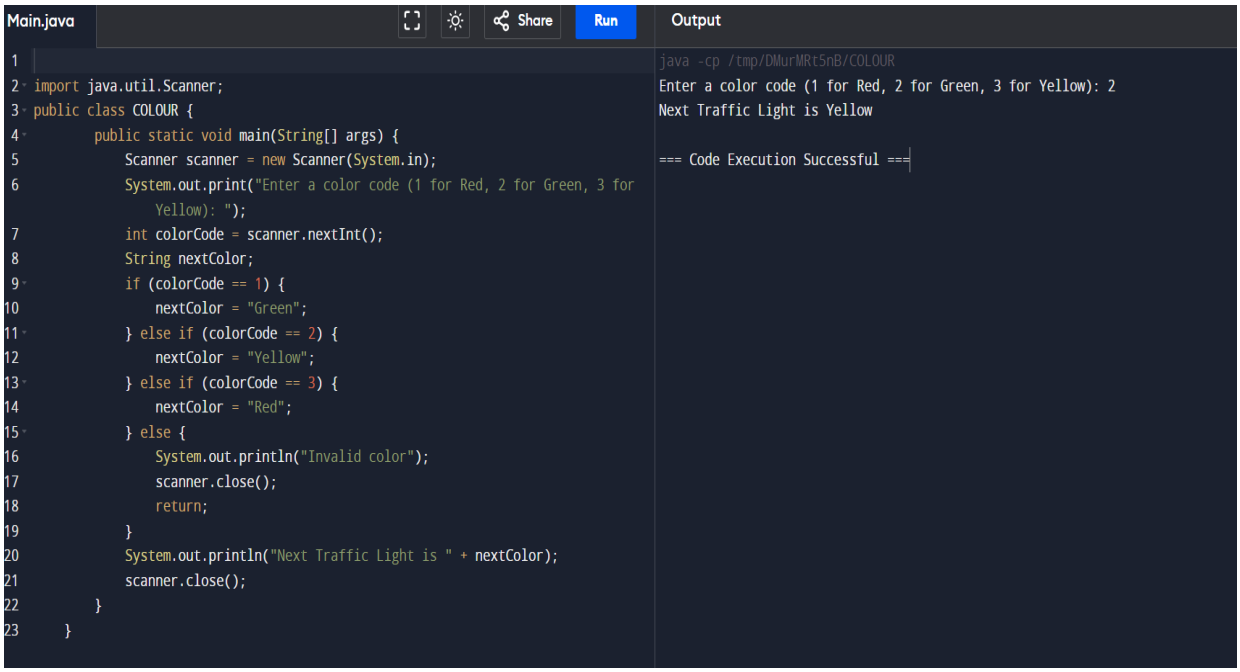
Problems Javadoc Declaration Console ×

<terminated> CombinedFile [Java Application] C:\Users\mahum\.p2\pool\plugins\org.eclipse.justj.openjd

```
Teja Naidu Temperature in Celsius: 37.77777777777778
Hypotenuse: 5.0
Die roll result: 4
```

sec-5


Main.java
Share
Run
Output
import java.util.Scanner;
public class ColorRange {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.print("Enter a color code: ");
double wavelength = scanner.nextDouble();
String color = check(wavelength);
if (color != null) {
System.out.println("The color is " + color);
} else {
System.out.println("The entered wavelength is not a part of the visible spectrum");
}
scanner.close();
}
public static String check(double wavelength) {
if (wavelength >= 380 && wavelength < 450) {
return "Violet";
} else if (wavelength >= 450 && wavelength < 495) {
return "Blue";
} else if (wavelength >= 495 && wavelength < 570) {
return "Green";
java -cp /tmp/4vsbXJnBr2/ColorRange
Enter a color code: 590
The color is Orange
=== Code Execution Successful ===


Main.java
Share
Run
Output
import java.util.Scanner;
public class COLOUR {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.print("Enter a color code (1 for Red, 2 for Green, 3 for Yellow): ");
int colorCode = scanner.nextInt();
String nextColor;
if (colorCode == 1) {
nextColor = "Green";
} else if (colorCode == 2) {
nextColor = "Yellow";
} else if (colorCode == 3) {
nextColor = "Red";
} else {
System.out.println("Invalid color");
scanner.close();
return;
}
System.out.println("Next Traffic Light is " + nextColor);
scanner.close();
}
}
java -cp /tmp/DWurMRt5nB/COLOUR
Enter a color code (1 for Red, 2 for Green, 3 for Yellow): 2
Next Traffic Light is Yellow
=== Code Execution Successful ===

Sec-6

Main.java

Share Run

```java
import java.util.Scanner;

public class ValidatePin {
    public static void main(String[] args) {
        final int VALID_PIN = 1234;

        Scanner scanner = new Scanner(System.in);

        int enteredPin = 0;

        while (enteredPin != VALID_PIN) {
            System.out.print("Enter your PIN: ");
            enteredPin = scanner.nextInt();

            if (enteredPin != VALID_PIN) {
                System.out.println("Incorrect PIN. Please try again.");
            }
        }


        System.out.println("PIN accepted. Access granted.");

        scanner.close();
    }
}
```

Output

```
java -cp /tmp/JrpiePIfYY/ValidatePin
Enter your PIN: 1234
PIN accepted. Access granted.

=== Code Execution Successful ===
```

Main.java

Share Run

```java
import java.util.Scanner;

public class ValidatePin {
    public static void main(String[] args) {
        final int VALID_PIN = 1234;

        Scanner scanner = new Scanner(System.in);

        int enteredPin = 0;

        while (enteredPin != VALID_PIN) {
            System.out.print("Enter your PIN: ");
            enteredPin = scanner.nextInt();

            if (enteredPin != VALID_PIN) {
                System.out.println("Incorrect PIN. Please try again.");
            }
        }


        System.out.println("PIN accepted. Access granted.");

        scanner.close();
    }
}
```

Output

```
java -cp /tmp/JrpiePIfYY/ValidatePin
Enter your PIN: 1234
PIN accepted. Access granted.

=== Code Execution Successful ===
```