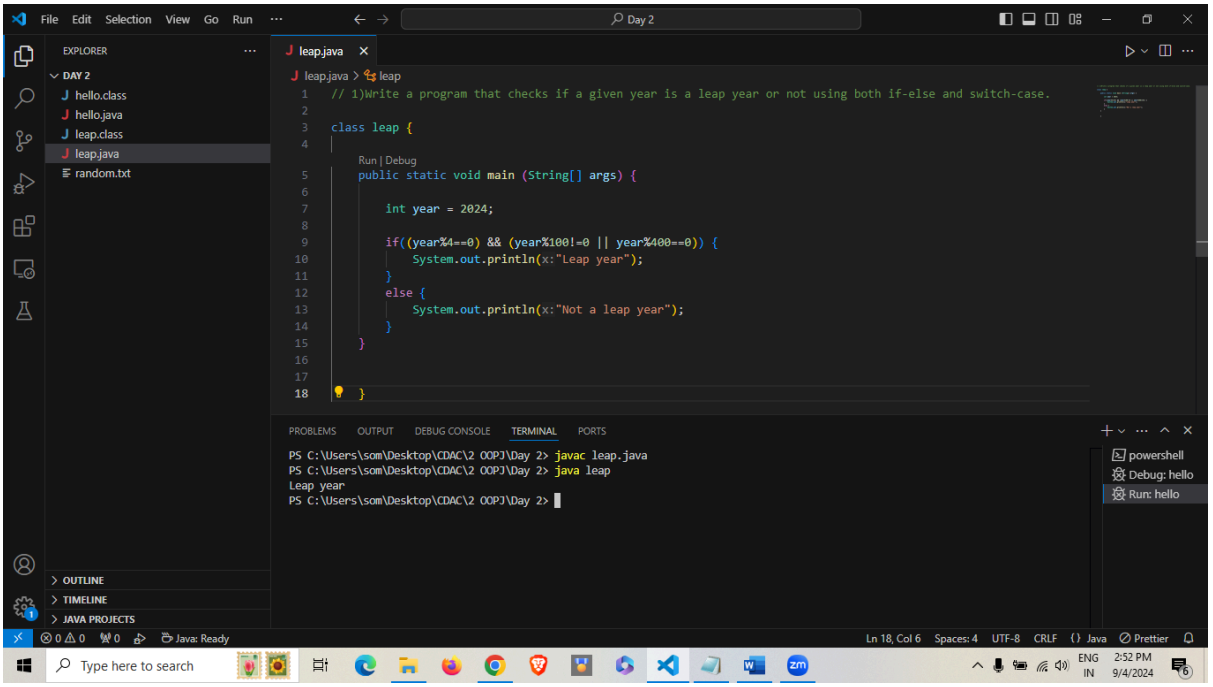
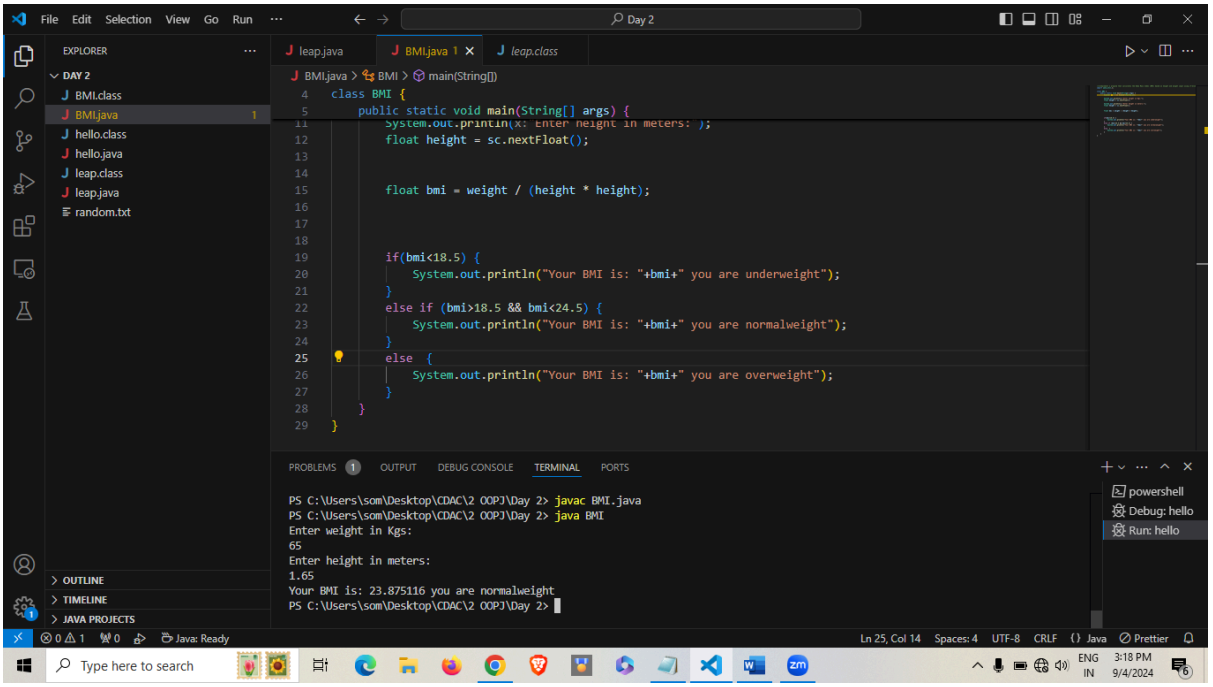
Assignment No- 2

1)Write a program that checks if a given year is a leap year or not using both if-else and switch-case.

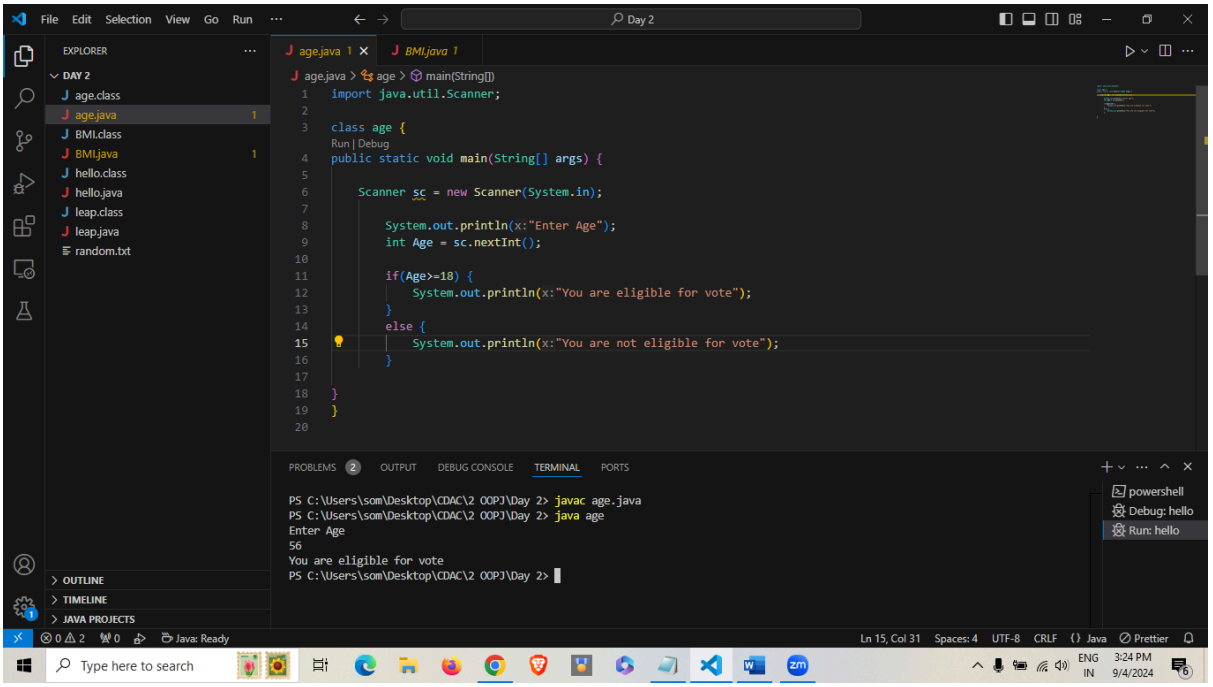
A.



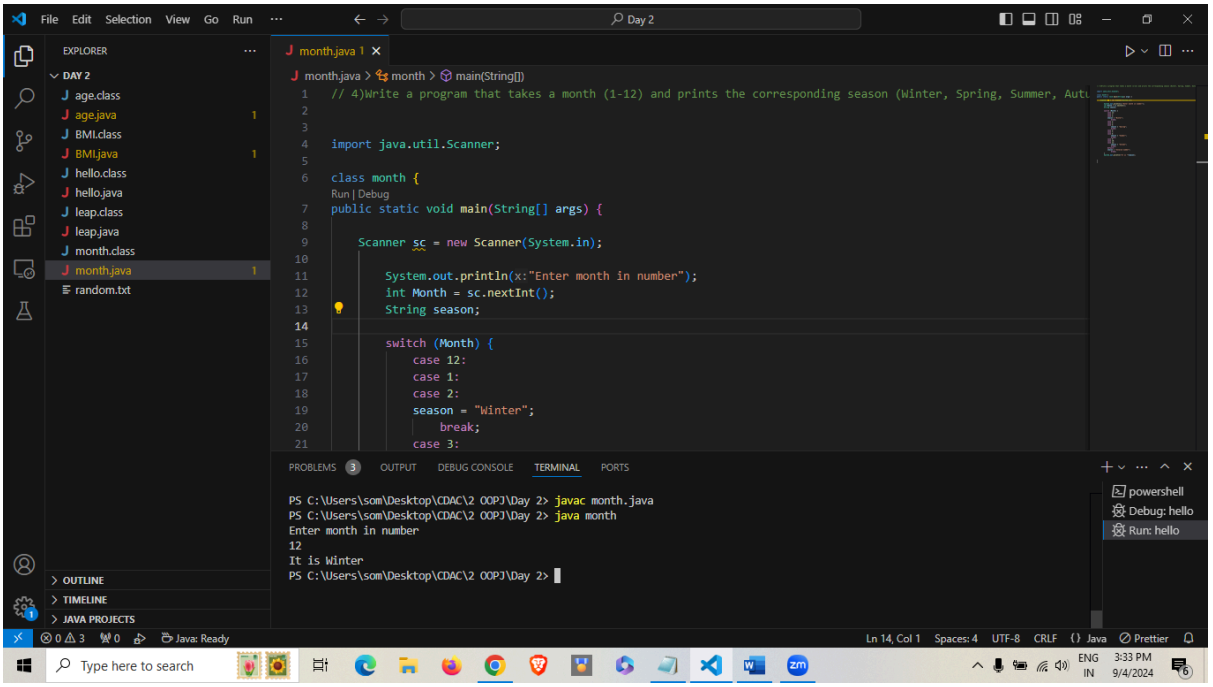
2)Implement a program that calculates the Body Mass Index (BMI) based on height and weight input using if-else to classify the BMI int categories (underweight, normal weight, overweight,etc).



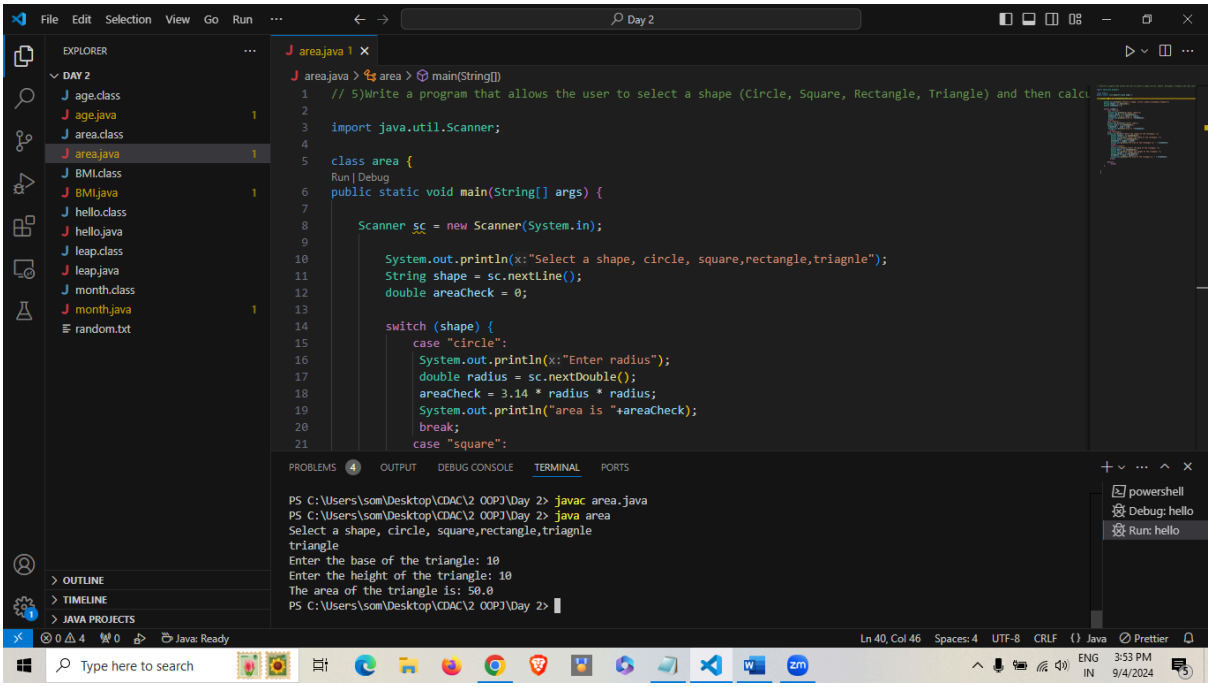
3)Write a program that checks if a person is eligible to vote based on their age.



4)Write a program that takes a month (1-12) and prints the corresponding season (Winter, Spring, Summer, Autumn) using a switch case



5)Write a program that allows the user to select a shape (Circle, Square, Rectangle, Triangle) and then calculates the area based on user-provided dimensions using a switch case.


File Edit Selection View Go Run
Day 2
EXPLORER
DAY 2
age.class
age.java
area.class
area.java
BMI.class
BMI.java
hello.class
hello.java
leap.class
leap.java
month.class
month.java
random.txt
area.java 1
area.java > area > main(String[])
// 5)Write a program that allows the user to select a shape (Circle, Square, Rectangle, Triangle) and then calcu
import java.util.Scanner;
class area {
Run | Debug
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.println(x:"Select a shape, circle, square,rectangle,triagnle");
String shape = sc.nextLine();
double areaCheck = 0;
switch (shape) {
case "circle":
System.out.println(x:"Enter radius");
double radius = sc.nextDouble();
areaCheck = 3.14 * radius * radius;
System.out.println("area is "+areaCheck);
break;
case "square":
PROBLEMS 4
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\som\Desktop\CDAC\2 OOPJ\Day 2> javac area.java
PS C:\Users\som\Desktop\CDAC\2 OOPJ\Day 2> java area
Select a shape, circle, square,rectangle,triagnle
triangle
Enter the base of the triangle: 10
Enter the height of the triangle: 10
The area of the triangle is: 50.0
PS C:\Users\som\Desktop\CDAC\2 OOPJ\Day 2>
powershell
Debug: hello
Run: hello
OUTLINE
TIMELINE
JAVA PROJECTS
Java: Ready
Ln 40, Col 46
Spaces: 4
UTF-8
CRLF
Java
Prettier
Type here to search
ENG
IN
3:53 PM
9/4/2024