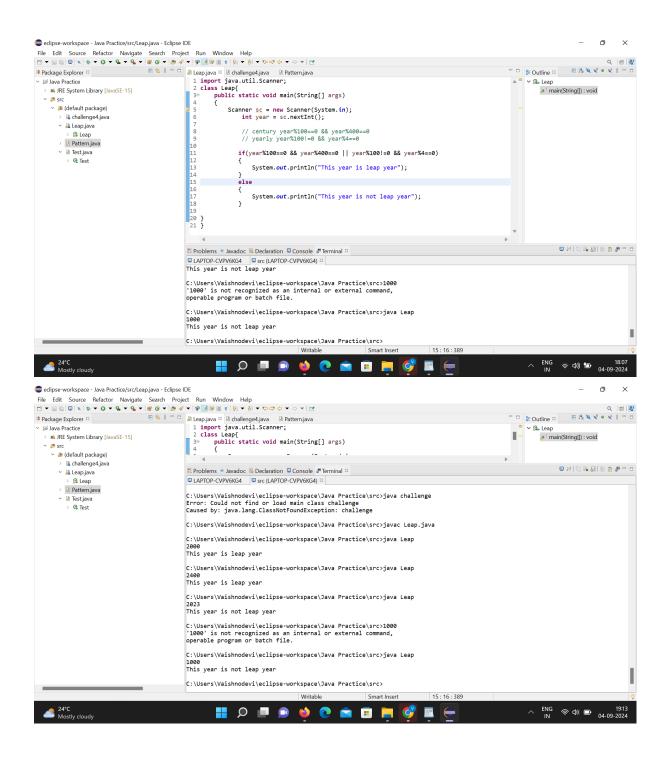
Assignment 2

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



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

```
eclipse-workspace - Java Practice/src/Vote.java - Eclipse IDE
                                                                                                                                                                             - n ×
File Edit Source Refactor Navigate Search Project Run Window Help
                                               1 import java.util.Scanner;
2 class Vote
3 {
                                                                                                                                                        □ B Outline □ □ □ □ ▼ ▼ • ★ 8 □
# Package Explorer □ Deap.java Dchallenge4.java Deap_switch.java DVote.java □
                                                                                                                                                         ▲ Vote

Make Vote

Make a Main (String[]): void
   → M JRE System Library [JavaSE-15]
                                                        public static void main(String[] args)
{

    # (default package)

                                                            Scanner sc = new Scanner(System.in);
System.out.println("Enter your age");
int age = sc.nextInt();

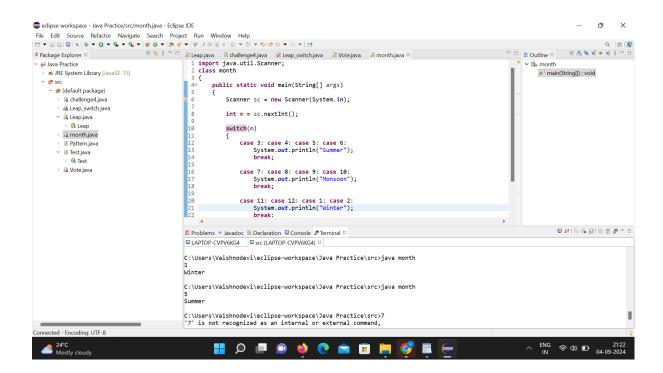
    Leap_switch.java
    Leap.java

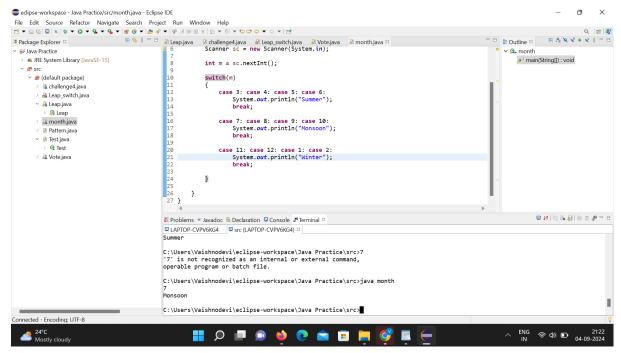
          > 🙉 Leap
                                                     if(age>18)
{
                                                10
11
12
13
14
15
16
17
18
19
20
21 }

    Pattern.java

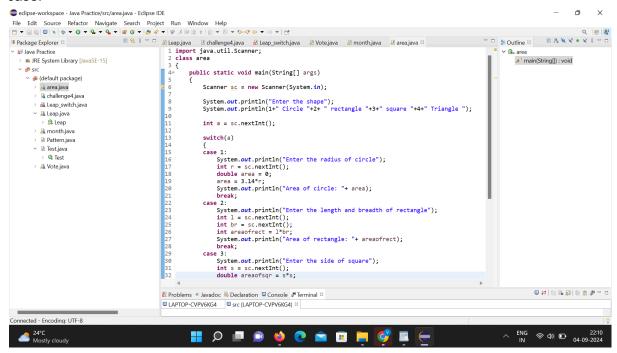
                                                                  System.out.println("You are eligible to Vote");
        ∨ 🛭 Test.java
           @ Test
       > 🚇 Vote.java
                                                                 System.out.println("You are not eligible to Vote");
                                                        }
                                                                                                                                                                       You are not eligible to Vote
                                                C:\Users\Vaishnodevi\eclipse-workspace\Java Practice\src>java Vote
Enter your age
40
You are eligible to Vote
                                                C:\Users\Vaishnodevi\eclipse-workspace\Java Practice\src>
 Connected - Encoding: UTE-8
                                                                                                                                                                 ENG (20:18 IN (04-09-2024
```

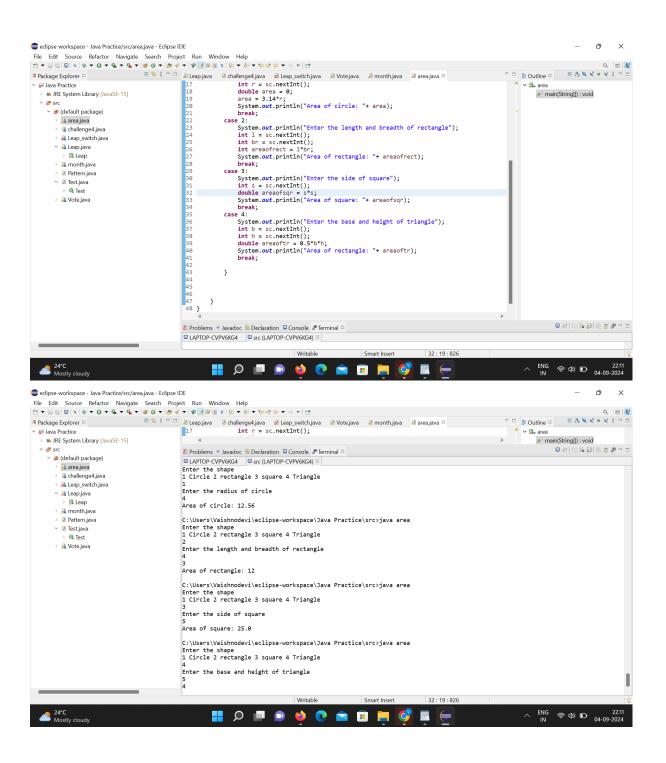
4)Write a program that takes a month (1-12) and prints the corresponding season (Winter, Spring, Summer, Autumn) using a switch case

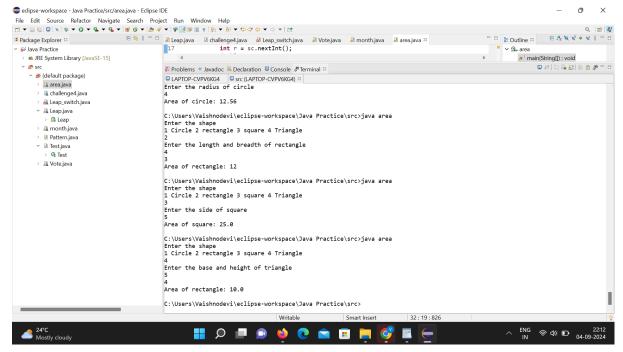




5)Write a program that allows the user to select a shape (Circle, Square, Rectangle, Triangle) and then calculates the area based on user-provided dimensions using a switch case.







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).

