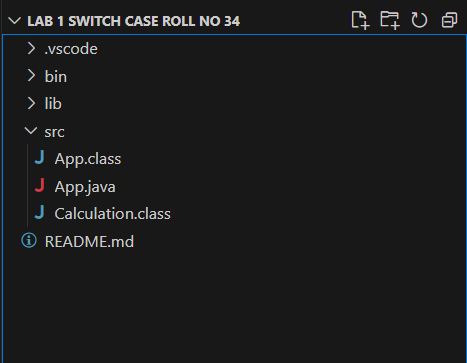
1. Write a JAVA program to calculate: Add, Subtract , Multiply and Divide using Switch Case.



***INPUT:***

import java.util.Scanner;

public class App {

public static void main(String[] args) throws Exception {

Scanner sc = new Scanner(System.in);

System.out.println("Enter first digit:");

int a = sc.nextInt();

System.out.println("Enter second digit:");

int b = sc.nextInt();

System.out.println("Enter 1 for Add:");

System.out.println("Enter 2 for Sub:");

System.out.println("Enter 3 for Mul:");

System.out.println("Enter 4 for Div:");

int option = sc.nextInt();

Calculation obj = new Calculation();

switch (option) {

case 1:

int c = obj.Add(a, b);

System.out.println(c);

break;

case 2:

int d = obj.Sub(a, b);

System.out.println(d);

break;

case 3:

int e = obj.Mul(a, b);

System.out.println(e);

break;

case 4:

int f = obj.Div(a, b);

System.out.println(f);

break;

}

sc.close(); }

}

class Calculation {

public int Add(int a, int b)

{

return a + b;

}

public int Sub(int a, int b)

{

return a - b;

}

public int Mul(int a, int b)

{

return a \* b;

}

public int Div(int a, int b)

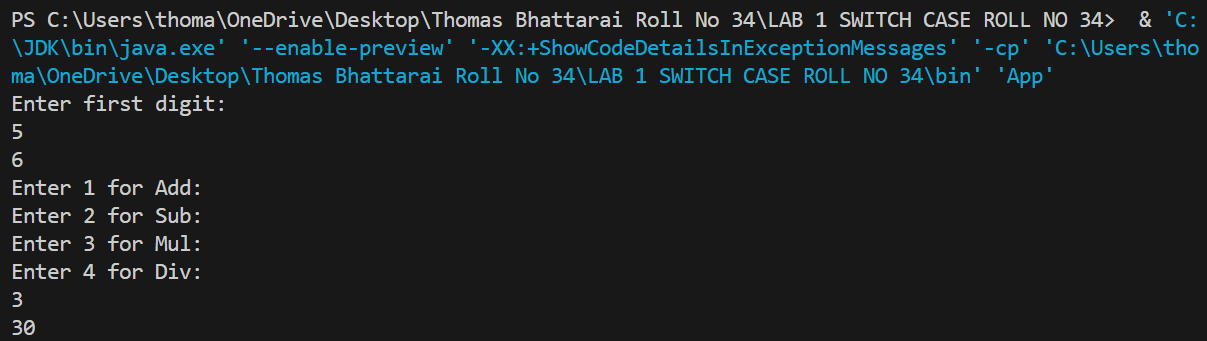
{

return a / b;

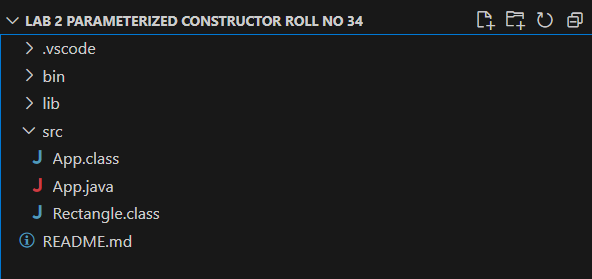
}

}

***Output:***



2. Write a JAVA program to calculate Add two digit using parameterized constructor.



*INPUT:*

import java.util.Scanner;

public class App {

public static void main(String[] args) throws Exception {

Scanner sc=new Scanner(System.in);

System.out.println("Enter first digit :");

int a=sc.nextInt();

System.out.println("Enter second digit :");

int b=sc.nextInt();

Rectangle rect=new Rectangle(a,b);

rect.Display();

sc.close();

}

}

class Rectangle

{

int first=0;

int second=0;

public Rectangle(int a,int b)

{

first=a;

second=b;

}

public void Display()

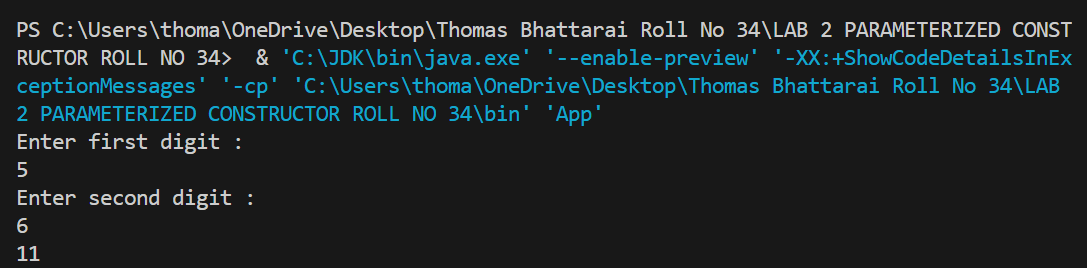
{

System.out.println(first+second);

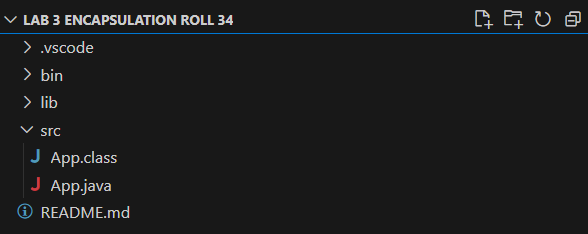
}

}

***Output:***



3. Write a Java program to achieve encapsulation using private access modifier.



***INPUT:***

public class App {

private int length;

private int breadth;

public App(int l, int b)

{

this.length = l;

this.breadth = b;

}

public void Area() {

System.out.println(length \* breadth);

}

public static void main(String[] args) {

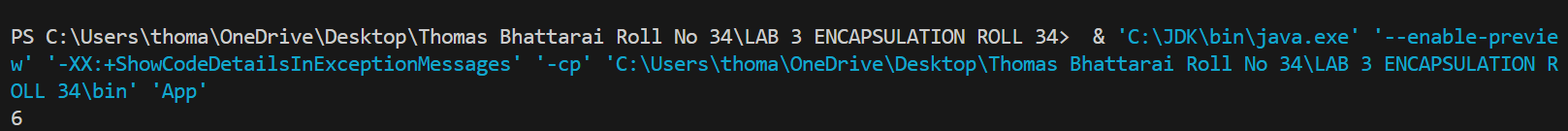
App ap = new App(2, 3);

ap.Area();

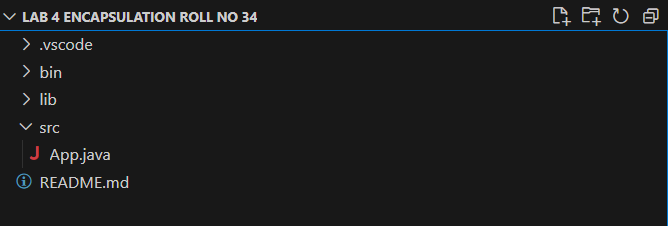
}

}

***OUTPUT :***



4.Write a program to write encapsulation using getter and setter.



***INPUT:***

public class App {

public static void main(String[] args) throws Exception {

Rectangle rect=new Rectangle();

rect.setLength(5);

rect.setBreadth(5);

System.out.println(rect.getLength()\*rect.getBreadth());

}

}

class Rectangle

{

private int length;

private int breadth;

public int getLength(){

return length;

}

public void setLength(int length) {

this.length = length;

}

public int getBreadth() {

return breadth;

}

public void setBreadth(int breadth) {

this.breadth = breadth;

}

}

***OUTPUT:***

