Lab tasks by 21SW159

**01. Create a class having 4 functions, add, sub, mul and div. Each function accepts 2 parameters and returns the sum, difference, multiplication and division of these numbers.**

**Create a main class having main function that uses the above class.**

import java.util.Scanner;

class practice1{

public static void main(String[] args){

Scanner scan = new Scanner(System.in);

int a,b;

System.out.print("enter number one: ");

a=scan.nextInt();

System.out.print("Enter number second: ");

b=scan.nextInt();

cal calcu = new cal();

System.out.println("Addition: "+calcu.add(a,b));

System.out.println("Subtraction: "+calcu.sub(a,b));

System.out.println("Multiplication: "+calcu.mul(a,b));

System.out.println("Division: "+calcu.div(a,b));

}

}

class cal{

int add(int a,int b){

return (a+b);

}

int sub(int a,int b){

return (a-b);

}

int mul(int a,int b){

return (a\*b);

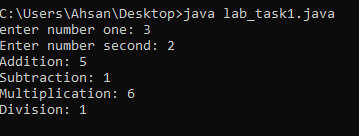
}

int div(int a,int b){

return (a/b);

}

}



**02. Demonstrate the use of the following:**

**Constructor, Accessors and mutators, static class members.**

class main{

public static void main(String [] args){

example one = new example(3,5);

one.set\_age(4);

System.out.println(one.get\_age());

System.out.println("static member of class: "+example.c);

example two = new example(2,0);

System.out.println("static member of class: "+example.c);

}

}

public class example{

int age=0;

public static int c=0;

example(int a,int b){

c += a+b;

}

void set\_age(int age){

this.age = age;

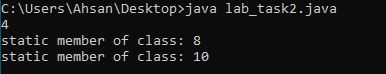
}

int get\_age(){

return this.age;

}

}



**03. Create a Student class that stores student data, provides methods for initializing and displaying student data. Also provide a parameterized constructor for initializing student class data members.**

class main{

public static void main(String[] args){

student s1 = new student("Ahmed","21TL093",2019);

student s2 = new student("Fahad","21TL091",2018);

s1.display();

s2.display();

}

}

class student{

String name;

String rollno;

int year;

student(String name,String rollno, int year){

this.name = name;

this.rollno = rollno;

this.year = year;

}

void display(){

System.out.println("Name: "+this.name);

System.out.println("Rollno: "+this.rollno);

System.out.println("Year: "+this.year);

}

void set\_name(String name){

this.name = name;

}

String get\_name(){

return (this.name);

}

void set\_rollno(String rollno){

this.rollno = rollno;

}

String get\_rollno(){

return (this.rollno);

}

void set\_year (int year){

this.year = year;

}

int get\_year(){

return (this.year);

}

}

