Assignment -2

Ans:-

```
import java.util.Scanner;

class Calculator {

    public void performAddition(int a, int b) {
        int result = a + b;
        System.out.println("Addition: " + result);
    }

    public void performAddition(double a, double b) {
        double result = a + b;
        System.out.println("Addition: " + result);
    }

    public void performAddition(int a, int b, int c) {
        int result = a + b + c;
        System.out.println("Addition: " + result);
    }

    public void performSubstraction(int a, int b) {
        int result = a - b;
        System.out.println("Substraction: " + result);
    }

    public void performMultiply(double a, double b) {
        double result = a * b;
        System.out.println("Multiplication: " + result);
    }
```

```
public void performdivision (int a , int b) {
    if (b != 0) {
        int result = a/b ;
        System.out.println ("Division : " + result);
    }
    else {
        System.out.println (" invalid input ");
    }
}

public void mainMenu() {
    System.out.println ("--- welcon to the
        calculater Application --- ");
    System.out.println (" 1. Addition ");
    System.out.println (" 2. Substraction " );
    System.out.println (" 3. Multiplication " );
    System.out.println (" 4. Division " );
    System.out.println (" 5. Exit " );
}
}

class Main {
    public Static void main (String [] args) {
        Scanner obj = new Scanner (System.in);
        Calculater obj 2 = new Calculator();
        obj 2. mainMenu() ;
        System.out.println (" Enter your choice :");
        int choice = obj.nextInt();
```

```
if (choice == 1) {
    System.out.println("which type of Addition u
    want to do add : ");
    System.out.println(" 1. Integer Addition ");
    System.out.println("2. Double Addition ");
    System.out.println("Enter your choice : ");
    int addchoice = obj.nextInt();

    if (addchoice == 1){
        System.out.println("Enter 1st number ");
        int a = obj.nextInt();
        System.out.println("Enter 2nd number ");
        int b = obj.nextInt();
        System.out.println("Do you want to add 3rd no
            (yes/no) ");
        String ans = obj.next();
        if (ans.equals("yes")) {
            System.out.println("Enter 3rd number : ");
            int c = obj.nextInt();
            obj2.performAddition(a, b, c);
        }

    else {
        obj2.performAddition(a, b);
    }
}
```

```
if (choice == 2) {
    System.out.println("Enter 1st no.");
    double a = obj.nextDouble();
    System.out.println("Enter 2nd no");
    double b = obj.nextDouble();
    obj2.performAddition(a, b);
}

}

if (choice == 2) {
    System.out.println("Enter 1st no.:");
    int a = obj.nextInt();
    System.out.println("Enter 2nd no.");
    int b = obj.nextInt();
    obj2.performSubstraction(a, b);
}

if (choice == 3) {
    System.out.println("Enter 1st no.:");
    double a = obj.nextDouble();
    System.out.println("Enter 2nd no:");
    double b = obj.nextDouble();
    obj2.performMultiply(a, b);
}

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if (choice == 4) {
    System.out.println("Enter 1st no.: ");
    int a = obj.nextInt();
    System.out.println("Enter 2nd no: ");
    int b = obj.nextInt();
    obj2.performDivision(a, b);
}

if (choice == 5) {
    System.out.println("Exiting the Application.
                        Good Bye!");
    System.exit(0);
}

else {
    System.out.println("Invalid Input");
}
}
}.
```