

OOPJ Assignment-4 (Unit-2)

```
//This is lecture program for 17/02/2025 [just for Reference]
//Static Method Concept
import java.util.Scanner;
class MyNewClass{
  int a,b;
  void add3(int a,int b){//diff class non-static meth
    System.out.println("add3:"+(a+b));
  static void add4(int a,int b){//diff class static meth
    System.out.println("add4:"+(a+b));
public class StaticMethDemo {
  public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    System.out.println("enter 2 no.");
    int a=sc.nextInt();
    int b=sc.nextInt();
    StaticMethDemo sm=new StaticMethDemo();
    sm.add1(a,b);//static meth can't call non-static w/o obj
    add2(a, b);//static meth can call other static meth w/o obj
    MyNewClass nc=new MyNewClass();
    nc.add3(a, b)://call diff class non-static meth with obi
    MyNewClass.add4(a,b);//call static meth of diff cl with class reference
  void add1(int a,int b){//same class non-static meth
    System.out.println("add1:"+(a+b));
  }//add1
  static void add2(int a,int b){//same class static meth
    System.out.println("add2:"+(a+b));
}
```

Assignment-4:

Kindly refer previous program.

Program-1: Static Method

Write a java program to calculate area of a circle for given radius (radius will be entered by user). Create two class CircleMain.java & Circle.java.

Implement following methods in your program:

- 1) void cirArea1(int r);// this is non-static method same class
- 2) void cirArea2(int r);// this is static method same class
- 3) void cirArea3(int r);// this is non-static method different class
- 4) void cirArea4(int r);// this is static method different class

call all 4 methods and print area

Program-2: Add the missing code: Static Variable

```
//static variable program
class StudH1{
   String name;
   int roll;
   static String uni;//static variable
   StudH1(String name,int roll, String uni){
     this.name=name;
     this.roll=roll;
     this.uni=uni;
}
```



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```
void display1(){
    System.out.println(name+"\t"+roll+"\t"+uni);
  }
public class StaticVarDemo {
  public static void main(String[] args) {
    StudH1 s1=new StudH1("abc",111,"DU");
    StudH1 s2=new StudH1("pqr",222,"DU");
    StudH1 s3=new StudH1("xyz",333,"DU");
    /* Add the missing code here
     * change the name of s3 to "zzz" instead of "xyz" using object s3.____="zzz"
     * change the uni name to "Darshan" instead of "DU" with class reference & object refrence
     * ClassName.____="Darshan"; //Class Ref:is it correct? OR
     * obj.____="Darshan";//Object Ref:is it correct?
     * Note: Observe the output carefully
    s1.display1();
    s2.display1();
    s3.display1();
Output:
```