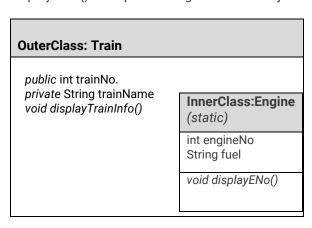


OOPJ Assignment-6 (Unit-2)

Program: Write a java program to demonstrate static nested inner class as shown in diagram. Total 3 class: Train, Engine and TrainMain class. Create object of both outer and inner class in psv_main(). Call display ENo() from psvm using inner class object to print trainNo, trainName and EngineNo.



```
Lecture Program 19/2/25
//Program1: non-static nested class
class Aout{
  static private int a=100;//inner class can access private member
  Aout(){
    System.out.println("Aout constructor");
    Bln b1=new Bln();
    b1.add1();
  class BIn{//non-static nested class
    int b=20;
    Bln(){
       System.out.println("Bln constructor");
       System.out.println("Bln:a+b="+(a+b)); inner class can access private member
  }
public class NestingDemo {
  public static void main(String[] args) {
    Aout a1=new Aout();
    //Bln b1=new Bln();//unknown class:can't access inner class
}
//program-2: Static Nested class
class Aout{
  static private int a=100;
  int b=500;
 public Aout(){
    System.out.println("aout constructor");
 static class Bln{//non-static nested class
    int b=20;
    public Bln(){
      System.out.println("Bln constructor");
    public void add1 (int a,int b){
      System.out.println("Bln:a+b="+(a+b)); //1+2=3
      System.out.println("a+this.b="+(a+this.b));//1+300=301
 }
public class NestingDemo {
 public static void main(String[] args) {
    Aout a1=new Aout();//call outer class constructor
    Aout.Bln b1=new Aout.Bln();//call constructor of inner class
    b1.b=300;//set value for var of inner class
    b1.add1(1,2);//calling method of inner class
}
```