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3<sup>rd</sup> year CSE Roll – 48
                                                Static Lab
1)
class student{
  String name;
  int s_id;
  static String college_name = "STCET";
  student(String name, int s_id){
   this.name = name;
   this.s_id = s_id;
  }
  static void show(){
    System.out.println("College : "+college_name);
  }
  static void display(){
    System.out.println("Name : "+this.name);
    System.out.println("Student ID: "+this.s_id);
  }
}
public class problem1{
  public static void main(String args[]){
   student s1=new student("Joseph Johnson",45);
   System.out.println("Calling by Object name:\n ");
   s1.show();
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s1.display();
   student s2=new student("Rajat Biswas",29);
   System.out.println("\nCalling by Class name:\n");
   student.show();
   s2.display();
   student s3=new student("Hrisik Das",85);
   student.college_name = "IIEST";
   System.out.println("\nCollege name changed to: "+student.college_name);
   s3.show();
   s3.display();
   System.out.println("\nNow all the students study is:\n ");
   System.out.println(s1.name+" "+s1.college_name);
   System.out.println(s2.name+" "+s2.college_name);
   System.out.println(s3.name+" "+s3.college_name);
  }
}
Output 1:
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Calling by Object name:
College : STCET
Name : Joseph Johnson
Student ID: 45
Calling by Class name:
College : STCET
Name : Rajat Biswas
Student ID: 29
College name changed to: IIEST
College : IIEST
Name : Hrisik Das
Student ID: 85
Now all the students study is:
Joseph Johnson IIEST
Rajat Biswas IIEST
Hrisik Das IIEST
Output 2:
problem1.java:15: error: non-static variable this cannot be referenced from a static context
       System.out.println("Name : "+this.name);
problem1.java:16: error: non-static variable this cannot be referenced from a static context
       System.out.println("Student ID: "+this.s_id);
2 errors
2)
public class problem_2{
      public static void main(String[] args) {
             System.out.println("Main method called later");
      }
      static{
             System.out.println("Static method called first");
      }
```

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}
Output:
Static method called first
Main method called later
3)
public class counter{
        static int count = 0;
        counter(){
                count ++;
        }
        void display(){
                System.out.println("Number of object creation : "+count);
        }
        public static void main(String args[]) {
                counter c1 = new counter();
                c1.display();
        counter c2 = new counter();
                c2.display();
                counter c3 = new counter();
                c3.display();
       }
}
Output:
 Number of object creation : 1
Number of object creation : 2
  Number of object creation : 3
```