

**SWT 12031: Practical for
Object oriented Program**

**Department of Information
and Communication
Technology**
Faculty of Technology

Lab sheet :04
Reg. Number: SEU/IS/20/ICT/084
Academic Year :2020/2021
Date: 2023.02.07
Practical No :04

Exercise 01:

1. Create a class called **ICT**. Within this class, a. Define two variables namely **regno** and **indexno**.
 - a) Initialize **regno** to “SEU/IS/20/ICT/003” and **indexno** to “ICT 150”.
 - b) Create an object exam
 - c) Access the objects through the reference variable.

```
public class ICT{  
  
    String regno ="SEU/IS/20/ICT/003";  
    String indexno ="ICT 150";  
  
    public static void main (String []args){  
  
        ICT exam =new ICT();  
  
        System.out.println("Reg.NO-"+exam.regno);  
        System.out.println("Indexno-"+exam.indexno);  
  
    }  
}
```

Output:

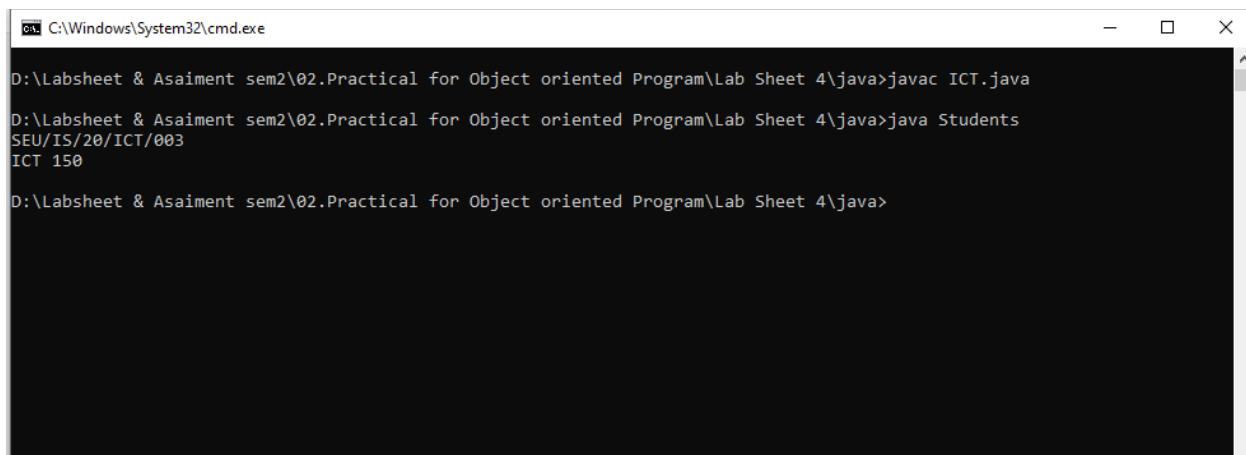
```
C:\Windows\System32\cmd.exe  
Microsoft Windows [Version 10.0.19044.2486]  
(c) Microsoft Corporation. All rights reserved.  
  
D:\Labsheet & Asaiment sem2\02.Practical for Object oriented Program\Lab Sheet 4\java>javac ICT.java  
  
D:\Labsheet & Asaiment sem2\02.Practical for Object oriented Program\Lab Sheet 4\java>java ICT  
Reg.NO-SEU/IS/20/ICT/003  
Indexno-ICT 150  
  
D:\Labsheet & Asaiment sem2\02.Practical for Object oriented Program\Lab Sheet 4\java>
```

2. Modify the above program to bring the main method inside a separate class called Student.

- a. Create an object john.
- b. Access the objects through the reference variable

```
public class ICT{  
  
    String regno ="SEU/IS/20/ICT/003";  
    String indexno ="ICT 150";  
}  
  
class Students{  
  
    public static void main (String []args){  
  
        ICT john =new ICT();  
  
        System.out.println(john.regno);  
        System.out.println(john.indexno);  
    }  
}
```

Output:



The screenshot shows a Windows Command Prompt window titled 'C:\Windows\System32\cmd.exe'. The command line shows the path 'D:\Labsheet & Asainment sem2\02.Practical for Object oriented Program\Lab Sheet 4\java>' followed by the command 'javac ICT.java'. The output displays the compilation of the 'ICT.java' file, showing the class definition. Then, the command 'java Students' is run, which outputs the values 'SEU/IS/20/ICT/003' and 'ICT 150' on two separate lines. The command line ends with '>'.

3. Modify question 2 as per the following instructions:

- a. Create a method called insertStudentRecord() inside the Student class to initialize the regno and indexno.**
- b. Create another method displayStudentDetails() inside Student class to display the student details.**
- c. Create another object mich inside Student.**
- d. Call the method insertStudentRecord() to enter student data and displayStudentDetails() method to display the details of the Student**

```
import java.util.Scanner;

public class ICT{

    String regno ;
    String indexno ;
}

class Students{

    String regno ;
    String indexno ;
    ICT student =new ICT();

    void insertStudentRecord(){

        Scanner myObj = new Scanner(System.in);

        System.out.print("Enter Student REG.Number:-");
        regno = myObj.nextLine();

        System.out.print("Enter Student indexno:-");
        indexno = myObj.nextLine();

        student.regno = regno;
        student.indexno =indexno;
    }

    void displayStudentDetails(){

        System.out.println("Student REG.Number:-"+student.regno);
        System.out.println("Students Index No:"+student.indexno);
    }
}
```

```
public static void main (String []args){

    Students mich = new Students();

    mich.insertStudentRecord();

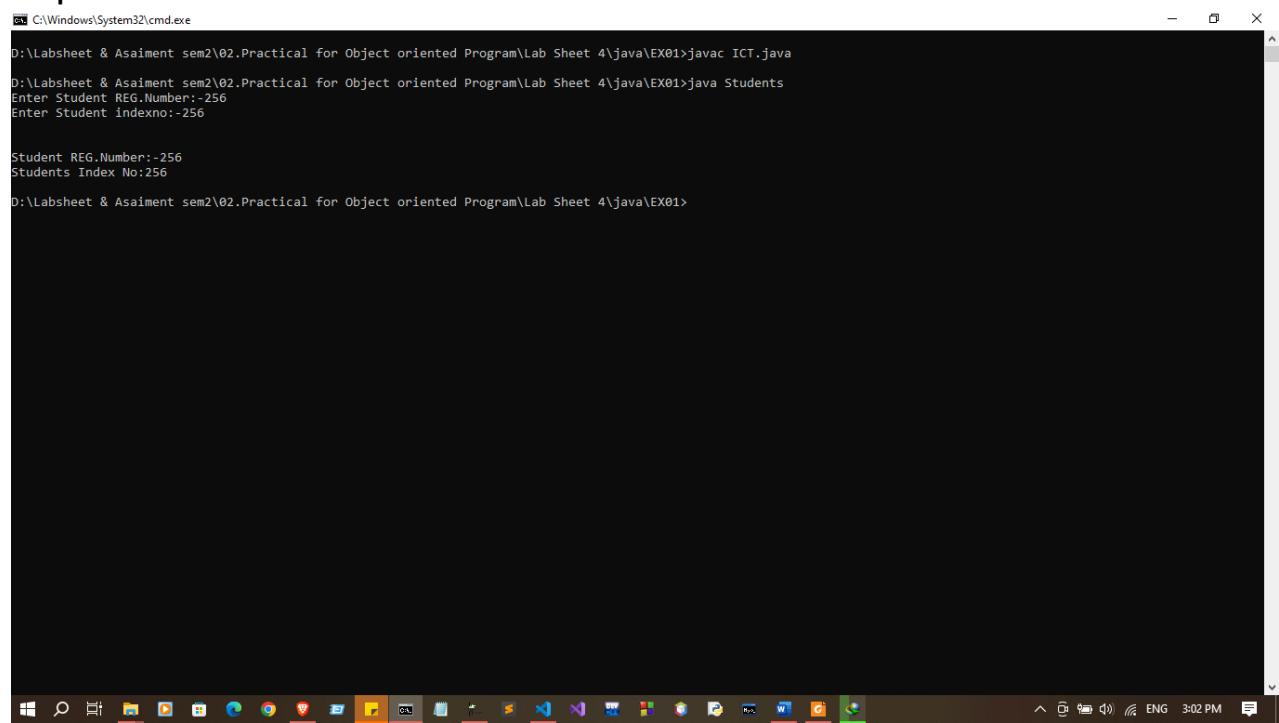
    System.out.println("");
    System.out.println("");

    mich.displayStudentDetails();

}

}
```

Output:



A screenshot of a Windows Command Prompt window titled 'C:\Windows\System32\cmd.exe'. The window displays the following text:

```
C:\Windows\System32\cmd.exe
D:\Labsheet & Asaiment sem2\02.Practical for Object oriented Program\Lab Sheet 4\java\EX01>javac ICT.java
D:\Labsheet & Asaiment sem2\02.Practical for Object oriented Program\Lab Sheet 4\java\EX01>java Students
Enter Student REG.Number:-256
Enter Student indexno:-256
Student REG.Number:-256
Students Index No:256
D:\Labsheet & Asaiment sem2\02.Practical for Object oriented Program\Lab Sheet 4\java\EX01>
```

The taskbar at the bottom of the screen shows various application icons, including File Explorer, Edge, and other system icons.