Lab Number:	10
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Title:

1.   Write a java program to implement Multiple Inheritance using Interfaces. Create an interface called Management with selectCandidate() method. Another interface called Department with allotSubject() method. Class called HOD will implements these two interfaces and define the methods and access them with valid objects.

Learning Objective:

Students will be able to implement multiple inheritance using Interface concepts

Learning Outcome:

- Understanding the abstraction concept and hiding of the unnecessary code using interfaces.

Course Outcome:

ECL304.4	1. Implement different programming applications using packaging.

Theory:

- What is complete abstraction and how is it achieved in JAVA?
- Explain multiple abstraction and how is it performed in Java?

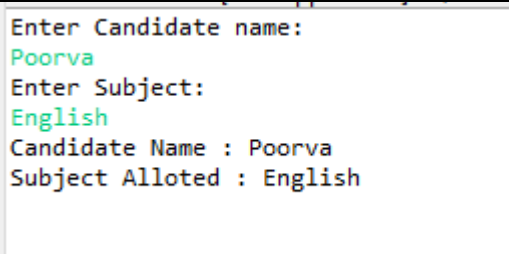| Algorithm :	1. START
	2. Create interface Management.
	3. Create another interface Department.
	4. Create class HOD and write all the attributes
	5. Then class HOD will extends Management and Department.
	6. Create main class and call the objects.
	7. END.
Program:	/*Create an interface called Management with selectCandidate() method.

```java
 Another interface called Department with allotSubject()
method.
Class called HOD will implements these two interfaces and
define the methods
and access them with valid objects.*/

package interface2;
import java.util.*;

interface Management
{
    void selectCandidate();
}

interface Department
{
    void  allotSubject();
}

class HOD implements Department, Management
{
    String Candidate;
    String Subject;
    void getdata()
    {
        Scanner t=new Scanner(System.in);
        System.out.println("Enter Candidate name:");
        Candidate=t.next();
        System.out.println("Enter Subject:");
        Subject=t.next();
    }
    public void selectCandidate()
    {
        System.out.println("Candidate Name : "+Candidate );
    }
    public void allotSubject()
    {
        System.out.println("Subject Alloted : "+Subject);
    }
}

class Main
{
    public static void main (String[] args)
    {
        HOD ob = new HOD();
        ob.getdata();
        ob.selectCandidate();
        ob.allotSubject();
    }
}
```

Input given:	**Poorva**

	English
| **Output Screenshot:** | ```
Enter Candidate name:
Poorva
Enter Subject:
English
Candidate Name : Poorva
Subject Alloted : English
``` |