

Don Bosco Institute of Technology, Kurla(W)
Department of Electronics and Tele-Communication Engineering
ECL304 - Skill Lab: C++ and Java Programming
Sem III
2021-22

Lab Number:	10
Student Name:	Simran Santosh Koparkar
Roll No :	41

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.
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Theory:

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

Algorithm :	STEP 1: Start the program. STEP 2: Declare an interface called Management with selectCandidate() method. Another interface called Department with allotSubject() method STEP 3: The function get() is used to read the 2 inputs from the user. STEP 4: Declare the Class called HOD STEP 5: Create class, create objects for the 2 classes and call them.
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	STEP 6: Stop the program
Program:	<pre>//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. import java.util.*; interface Management { void selectCandidate(); } interface Department { void allotSubject(); } class HOD implements Department, Management { String Candidate; String Subject; void getdata() { Scanner in=new Scanner(System.in); System.out.println("Enter Candidate name:");</pre>

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	<pre> Candidate=in.nextLine(); System.out.println("Enter Subject:"); Subject=in.next(); } public void selectCandidate() { System.out.println("Candidate Name : "+Candidate); } public void allotSubject() { System.out.println("Subject Alloted : "+Subject); } } public class Main { public static void main (String[] args) { HOD ob = new HOD(); ob.getdata(); ob.selectCandidate(); ob.allotSubject(); } } </pre>
Input given:	simran english

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Output Screenshot:

```
Enter Candidate name:
simran
Enter Subject:
english
Candidate Name : simran
Subject Alloted : english
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