Artificial Intelligence and Data Science Department.

OOPM / Odd Sem 2021-22 / Experiment.

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AIM: To write a program to demonstrate multiple inheritance using an interface.

Program 1:

```
import java.util.*;
interface Printable
{
     void print();
}
interface Showable extends Printable
{
     void show();
}
class Interface implements Printable, Showable
{
     public void print()
     {
          System.out.println("Good Morning");
     }
     public void show()
```

```
{System.out.println("Java is the best");
}

public static void main(String args[])
{
    Interface obj = new Interface ();
    obj.print();
    obj.show();
}
```

The output of program 1:

```
PS D:\Programming\Java> javac employee.java
PS D:\Programming\Java> java employee
Name : Prasad
Age : 20
Salary : 3000
PS D:\Programming\Java> _
```

THEORY + CONCLUSION:

Inherstence.
Theory:
Theory: The mechanism of deriving (creating) a new class from an old one is called Inheritence. The old class is referred
from an old one is called Inheritence. The Gold class is referred
to as the superclass and the newly created class as subclass "i) Therefore, the subclass is a specialized vorsion
al the superclase It inherite all the instance unables to method
of the superclass. It interits all the instance variables & method defined by the superclass & addle its own member, methods &
vaniables.
class from another class A of
class of
}
class B extends A {
- Single inheritance. Etypes of inheritance are:
- Multilevel Inheritance.
- Hierarchal inheritance.
· Multiple inheritance.
· flybrid inheritance.
Conclusion: Inherstruce is the most of ale 1 11 0
from the parent class to the child class It is inclosed to vors
using the keyword 'extends' and have different types such as
Conclusion: Inheritance is the property of inheriting of methods be vors from the parent class to the child class. It is implemented using the keyword 'extends' and have different types such as Single, Multilevel, Hierarchal, etc.

· Single inheritana		
O	Class A)	class B orderds A
	(Claub)	
· Multilevel Inheritance		
		Bexterds St.
	Class B Class C	extende B
· Hierarchal inheritance	(lass C)	
class of extends C	(class 8)	clu Bextude C.
· Multiple inheritance		
	Class C	Not supported in JAVA
· Mybred inheritance	Class D	
	13	class C Not supported in JAVA.