# 22. PROBLEM:

Write a program to implement multiple inheritance using interface.Also implement hybrid inheritance with multiple and multilevel.

# SOURCECODE:

interface inter\_1

{

public void method1();

}

interface inter\_2

{

public void method2();

}

class Derive\_1 implements inter1,inter2

{

public void method1()

{

System.out.println("method1 of inter1 is implemented.");

}

public void method2()

{

System.out.println("method2 of inter2 is implemented.");

}

}

class Derive\_2 extends Derive\_1

{

public void method3()

{

System.out.println("method3 of Derive\_2 is implemented.");

}

}

public class assignment32

{

public static void main(String args[])

{

Derive\_2 ob1=new Derive\_2();

ob1.method1();

ob1.method2();

ob1.method3();

}

}

# OUTPUT:

method1 of inter1 is implemented.

method2 of inter2 is implemented.

method3 of Derive\_2 is implemented.

# DISCUSSION:

1.Here we create two interface inter1 and inter2 and declare method1 and method2 respectively.

2.In derive\_1 class we implements both the interfaces which indicates multiple inheritance and in derive\_2 class we extends the derive\_1 which indicates the hybrid inheritance.