# 21. PROBLEM:

Write a program to show that a superclass variable can reference a subclass object.Also implement method override.

# SOURCECODE:

class A

{

void display()

{

System.out.println("I am in super class display function.");

}

void show()

{

System.out.println("I am in super class show function.");

}

}

class B extends A

{

void display()

{

System.out.println("I am in sub class display function.");

}

void print()

{

System.out.println("I am in sub class print function.");

}

}

public class assignment21

{

public static void main(String args[])

{

B ob1=new B();

ob1.display();

ob1.print();

A ob;

ob=ob1;

ob.display();

ob.show();

//ob.print();

}

}

# OUTPUT:

I am in sub class display function.

I am in sub class print function.

I am in sub class display function.

I am in super class show function.

# DISCUSSION:

1. We demonstrates a program to show that a superclass variable can reference a subclass object.Also implement method override.
2. Using ob1 object we call the display and the print function.and now assigning ob1 to superclass variable ob we call display and show function.