**Main:**

package class\_22;

/\*\*

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\* @author gawitt

\*/

public class Class\_22 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

//Test

Person person1 = new Person("Bob","Dylan"); // Test

System.out.println(person1);

// Test second object and lastFI Method

Person person2 = new Person();

person2.setFirst("Hunter");

person2.setlast("Thompson");

System.out.println(person2.lastFI());

//////////////////

Student student1 = new Student("Damon", "Albarn", "Music", false);

System.out.println(student1); // test display

System.out.println(student1.lastFI()); // using the correct

Faculty faculty1 = new Faculty("Steve", "Hammer","Employed Art tutor",20000.00);

System.out.println(faculty1);

/////////////////

display(person1);

display(student1);

display(faculty1);

}//main

public static void display(Object a){

System.out.println("======================");

System.out.println(a);

System.out.println("======================");

}// display

}//class

**Person:**

package class\_22;

/\*\*

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\* @author gawitt

\*/

public class Person { //SuperClass

//Attributes

private String first; // private attributes of a person

private String last; // Private attributes of a person

//Constructors

Person(){} // no arguments

Person(String f, String l){

first = f;

last = l;

}// With arguments

//Accessor

public String getFirst(){

return first;

}//get First

public String getLast(){

return last;

}//getLast

public void setFirst(String f){

first = f;

}//setFirst

public void setlast(String l){

last = l;

}//setLast

public String lastFI(){

String ans = last + "," + " " + first.charAt(0) + ".";

return ans;

}// lastFI

@Override

public String toString(){

return first + " " + last;

}//toString

}//person

**Student:**

package class\_22;

/\*\*

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\* @author gawitt

\*/

public class Student extends Person{

// Attributes

String major;

boolean aid;

Student(String f, String l, String m, boolean a){

super(f,l); // call to super class method for person

major = m;

aid = a;

}// Student

public String toString(){

String ans = super.toString() + " has a major of " + major; // super.toString Calls the previously written method. ex of inheritance

return ans;

}// to String

}//Class

**Faculty:**

package class\_22;

/\*\*

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\* @author gawitt

\*/

public class Faculty extends Person {

String status;

double salary;

Faculty(String f, String l, String st, double sa){

super(f,l);

status = st;

salary = sa;

}// faculty

@Override

public String toString(){

String ans = super.toString() + " is a " + status + " and and is being compensated " + "$" + salary;

return ans;

}// toString

}// Faculty