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/*
    Topic :inheritance by interface
    Question 10:Use interface college in Q15. Interface College  consist of college code
    and location data members and two methods Course_material and conduct classes.
*/

package inheritance;
import java.util.Scanner;
public class Human3                                //declare class
{
    String name;
    String gender;                                //data member
    Scanner s=new Scanner(System.in);
    Human3()                                        //constructor
    {
        name="na";gender="na";
    }
    void accept()                                    //method
    {
        System.out.print("Enter Name :");
        name=s.next();
        System.out.print("Gender :");
        gender=s.next();
    }
    void display()                                    //method
    {
        System.out.print("Name :"+name);
        System.out.print("\nGender :"+gender);
    }
    public static void main(String args[])          //main
    {
        Student3 S1=new Student3(); //unable to use human3 reference var to point
Student3
        S1.accept();
        S1.display();
        S1.Course_material();
        S1.Conduct_class();
    }
}
interface Collage                                //Interface

```

```

{
    int code=121;                //static member
    String location="delhi";
    void Course_material();      //abstract method
    void Conduct_class();        //abstract method
}
class Student3 extends Human3 implements Collage    //inherit human3 and implements
Interface college

```

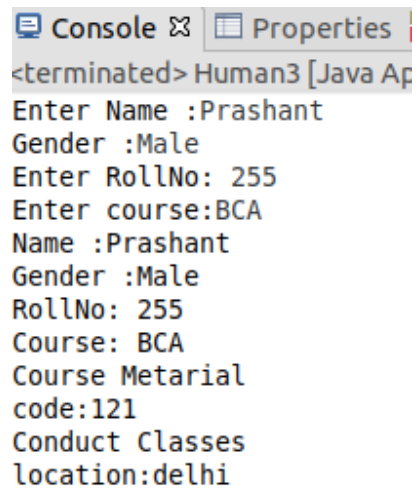
```

{
    int rollNo;
    String course;
    Student3()
    {
        rollNo=0;course="na";
    }
    void accept()
    {
        super.accept();    //human3 method call
        System.out.print("Enter RollNo: ");
        rollNo=s.nextInt();
        System.out.print("Enter course:");
        course=s.next();
    }
    void display()
    {
        super.display();
        System.out.print("RollNo: "+rollNo);
        System.out.print("\nCourse: "+course);
    }
    public void Course_material() //implement abstract method
    {
        System.out.println("\nCourse Metarial \ncode:"+ code);
    }
    public void Conduct_class()    //abstract method

    {
        System.out.println("Conduct Classes \nlocation:"+location);
    }
}

```

OUTPUT



The screenshot shows a Java IDE console window with two tabs: 'Console' and 'Properties'. The 'Console' tab is active, displaying the following text: <terminated> Human3 [Java Ap, Enter Name :Prashant, Gender :Male, Enter RollNo: 255, Enter course:BCA, Name :Prashant, Gender :Male, RollNo: 255, Course: BCA, Course Metarial, code:121, Conduct Classes, location:delhi.

```
<terminated> Human3 [Java Ap
Enter Name :Prashant
Gender :Male
Enter RollNo: 255
Enter course:BCA
Name :Prashant
Gender :Male
RollNo: 255
Course: BCA
Course Metarial
code:121
Conduct Classes
location:delhi
```