

```
/*
```

Topic :inheritance

Question 12:In accept age in student class. If age is less than 0 or more than 100 raise  
IllegalAge().

```
*/
```

```
package handling;
import java.util.Scanner;
public class Human
{
    String name;
    String gender;
    Scanner s=new Scanner(System.in);
    Human()
    {
        name="na";gender="na";
    }
    void accept()
    {
        System.out.print("Enter Name :");
        name=s.next();
        System.out.print("Gender :");
        gender=s.next();
    }
    void display()
    {
        System.out.println("Name :"+name);
        System.out.println("Gender :"+gender);
    }
    public static void main(String args[])
    {
        Human S1=new Student();
        S1.accept();
        S1.display();
    }
}
```

```
class IllegalAge extends Exception //inherit predefined class
{
    IllegalAge()
    {
```

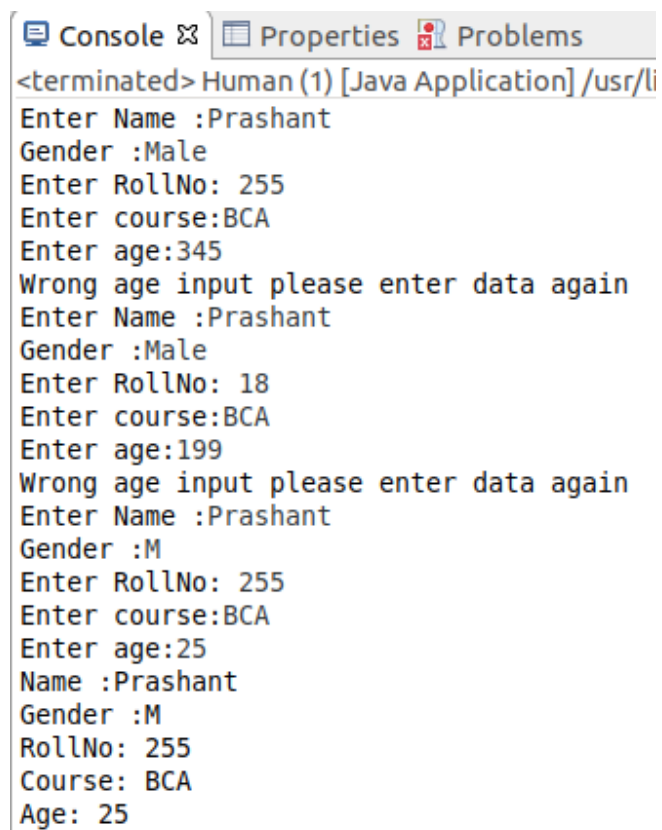
```

        System.out.println("Wrong age input please enter data again");
    }
}

class Student extends Human    //inherit human class
{
    int rollNo,age;
    String course;
    Student()
    {
        rollNo=0;course="na";
    }
    void accept()
    {
        super.accept();    //call human class method
        System.out.print("Enter RollNo: ");
        rollNo=s.nextInt();
        System.out.print("Enter course:");
        course=s.next();
        try {
            System.out.print("Enter age:");
            age=s.nextInt();
            if(age<0 | |age>100)
            {
                throw new IllegalAge();    //goto catch
            }
        }
        catch(IllegalAge e)    //send Illegal age
        {
            accept();
        }
    }
    void display()
    {
        super.display();
        System.out.println("RollNo: "+rollNo);
        System.out.println("Course: "+course);
        System.out.println("Age: "+age);
    }
}

```

## OUTPUT



The screenshot shows an IDE console window with three tabs: 'Console', 'Properties', and 'Problems'. The 'Console' tab is active, displaying the output of a Java application. The output shows a sequence of prompts and user inputs. The first attempt fails due to an invalid age (345), and the second attempt also fails due to an invalid age (199). The final output shows the correct data being displayed after a successful input.

```
<terminated> Human (1) [Java Application] /usr/li
Enter Name :Prashant
Gender :Male
Enter RollNo: 255
Enter course:BCA
Enter age:345
Wrong age input please enter data again
Enter Name :Prashant
Gender :Male
Enter RollNo: 18
Enter course:BCA
Enter age:199
Wrong age input please enter data again
Enter Name :Prashant
Gender :M
Enter RollNo: 255
Enter course:BCA
Enter age:25
Name :Prashant
Gender :M
RollNo: 255
Course: BCA
Age: 25
```