

Lab-exam

2347139

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```
1
2 interface studeInter {
3     public void firstClass();
4
5     public void checkAttendance();
6
7 }
8
9 abstract class Person {
10     String name;
11     int age;
12     int height;
13
14     public void get(String name, int age, int height) {
15         this.name = name;
16         this.age = age;
17         this.height = height;
18     }
19
20     public void show() {
21         System.out.println("Name of the Person is " + name);
22         System.out.println("Age of the Person" + name + "is" + age);
23         System.out.println("height of the Person" + name + "is" +
24             height);
25     }
26
27     abstract void formatDOB(int d, int m, int y);
28 }
29
30 class Student extends Person {
31     static int studId;
32     String institutionName;
33     double phoneNumber;
34
35     public void get(String institutionName, double phoneNumber) {
36         this.institutionName = institutionName;
37         this.phoneNumber = phoneNumber;
```

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37     }
38
39     public void show() {
40         System.out.println("Student id is " + studId);
41
42         System.out.println("institution Name of the student " + studId +
43             "is" + age);
44         System.out.println("Phone number of the student ID " + studId +
45             " is " + phoneNumber);
46     }
47
48     void formatDOB(int d, int m, int y) {
49         int today = 2023;
50         int age = today - y;
51         System.out.println("Calculated age of the student from DOB is" +
52             age);
53     }
54 }
55
56 class GraduateStudent extends Student implements studeInter {
57
58     GraduateStudent() {
59         super.show();
60     }
61
62     final String programName = "MCA";
63     int noOfSubjects;
64     String classTeacherName;
65     int marks;
66     int attendance;
67
68     public void get(int noOfSubjects, String classTeacherName, int
69         marks, int attendance) {
70         // this.programName = programName;
71         this.noOfSubjects = noOfSubjects;
72         this.classTeacherName = classTeacherName;
73         this.marks = marks;
74         this.attendance = attendance;
75     }
76
77     public void show() {
78         System.out.println("The program name is " + programName);
79         System.out.println("Number of subjects in the program " +
80             noOfSubjects);
81         System.out.println("Class teacher name " + classTeacherName);
82         System.out.println("Marks " + marks);
83         System.out.println("Have enough attendance" + attendance);
84     }
85 }

```

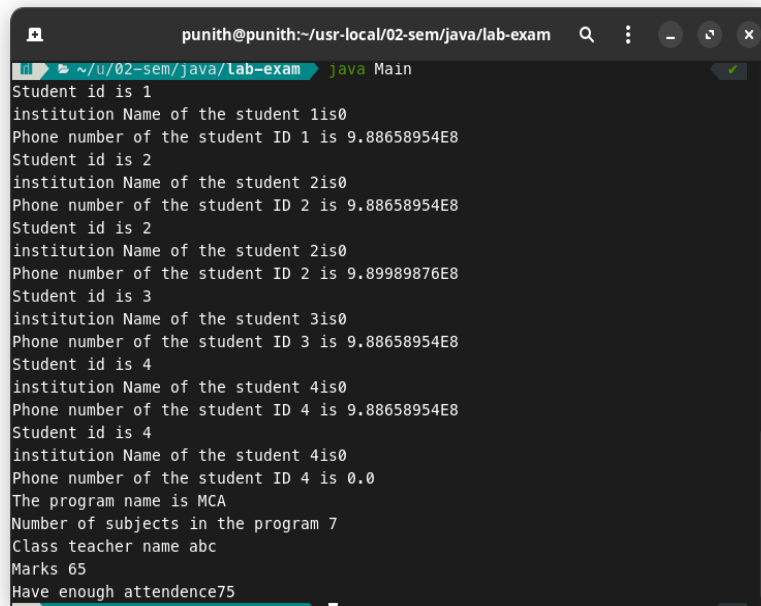
```

82
83     public void firstClass() {
84         if (marks >= 60) {
85             show();
86         }
87     }
88
89     public void checkAttendance() {
90         if (marks >= 75) {
91             show();
92         }
93     }
94
95 }
96
97 class Main {
98     public static void main(String[] args) {
99         Student[] stud;
100         stud = new Student[5];
101
102         stud[0] = new Student();
103         Student.studId = 01;
104         stud[0].get("christ university", 988658954);
105         stud[0].show();
106
107         stud[1] = new Student();
108         Student.studId = 02;
109         stud[1].get("SJC", 988658954);
110         stud[1].show();
111
112         stud[2] = new Student();
113         Student.studId = 02;
114         stud[2].get("PES university", 989989876);
115         stud[2].show();
116
117         stud[3] = new Student();
118         Student.studId = 03;
119         stud[3].get("Bishop cottons", 988658954);
120         stud[3].show();
121
122         stud[4] = new Student();
123         Student.studId = 04;
124         stud[4].get("Kristu jayanthi", 988658954);
125         stud[4].show();
126
127         // graduate Student
128         GraduateStudent[] gStud;
129         gStud = new GraduateStudent[4];
130
131         gStud[0] = new GraduateStudent();

```

```
132         gStud[0].get(7, "abc", 65, 75);
133         // gStud[0].show();
134         gStud[0].firstClass();
135         gStud[0].checkAttendance();
136
137     }
138 }
```

Output



```
punith@punith:~/usr-local/02-sem/java/lab-exam  🔍  ⋮  -  ↺  ×
~/u/02-sem/java/Lab-exam  java Main
Student id is 1
institution Name of the student 1is0
Phone number of the student ID 1 is 9.88658954E8
Student id is 2
institution Name of the student 2is0
Phone number of the student ID 2 is 9.88658954E8
Student id is 2
institution Name of the student 2is0
Phone number of the student ID 2 is 9.89989876E8
Student id is 3
institution Name of the student 3is0
Phone number of the student ID 3 is 9.88658954E8
Student id is 4
institution Name of the student 4is0
Phone number of the student ID 4 is 9.88658954E8
Student id is 4
institution Name of the student 4is0
Phone number of the student ID 4 is 0.0
The program name is MCA
Number of subjects in the program 7
Class teacher name abc
Marks 65
Have enough attendance75
```