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E2-w8.java > Personmain
1  import java.util.*;
2
3  class Person {
4      String n;
5
6      void display(String name) {
7          n = name;
8          System.out.println("\nThe details of the person is as below:\nName:" + n);
9      }
10 }
11
12 class Employee extends Person {
13     int id;
14
15     void display(String name, int i) {
16         id = i;
17         n = name;
18         System.out.println("\nThe details of the employee is as below:\nName:" + n + "\nEmployee id:" + id);
19     }
20 }
21
22 class Student extends Person {
23     int usn;
24
25     void display(String name, int u) {
26         usn = u;
27         n = name;
28         System.out.println("\nThe details of the student is as below:\nName:" + n + "\nUSN no:" + usn);
29     }
30 }
31
32 class Teaching extends Employee {
33     String i;
```

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30 }
31
32 class Teaching extends Employee {
33     String j;
34
35     void display(String name, int i, String job) {
36         id = i;
37         j = job;
38         n = name;
39         System.out.println("\nThe details of the teaching employee is as below:\nName:" + n + "\nEmployee id:" + id
40                             + "\nJob:" + j);
41     }
42 }
43
44 class NonTeaching extends Employee {
45     String j;
46
47     void display(String name, int i, String job) {
48         id = i;
49         j = job;
50         n = name;
51         System.out.println("The details of the non-teaching employee is as below:\nName:" + n + "\nEmployee id:" + id
52                             + "\nJob:" + j);
53     }
54 }
55
56 class UG extends Student {
57     int age;
58
59     void display(String name, int u, int a) {
60         usn = u;
61         n = name;
62         age = a;
```

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59 void display(String name, int u, int a) {
60     usn = u;
61     n = name;
62     age = a;
63     System.out
64         .println("\nThe details of the UG student is as below:\nName:" + n + "\nUSN no:" + usn + "\nAge:" + a);
65 }
66 }
67
68 class PG extends Student {
69     int age;
70
71     void display(String name, int u, int a) {
72         usn = u;
73         n = name;
74         age = a;
75         System.out.println("The details of the PG student is as below:\nName:" + n + "\nUSN no:" + usn + "\nAge:" + a);
76     }
77 }
78
79 class Personmain {
80     Run | Debug
81     public static void main(String[] args) {
82         Person p = new Person();
83         Employee e = new Employee();
84         Student s = new Student();
85         Teaching t = new Teaching();
86         NonTeaching nt = new NonTeaching();
87         UG u = new UG();
88         PG pp = new PG();
89         p.display("Aakash");
90         e.display(p.n, 123);
91         t.display(p.n, a id "Professor");
92     }
93 }
```

```
E2-w8.java > Personmain
72     usn = u;
73     n = name;
74     age = a;
75     System.out.println("The details of the PG student is as below:\nName:" + n + "\nUSN no:" + usn + "\nAge:" + a);
76 }
77 }
78
79 class Personmain {
    Run | Debug
80     public static void main(String[] args) {
81         Person p = new Person();
82         Employee e = new Employee();
83         Student s = new Student();
84         Teaching t = new Teaching();
85         NonTeaching nt = new NonTeaching();
86         UG u = new UG();
87         PG pp = new PG();
88         p.display("Aakash");
89         e.display(p.n, 123);
90         t.display(p.n, e.id, "Professor");
91         nt.display(p.n, e.id, "Doctor");
92         s.display(p.n, 777777);
93         u.display(p.n, s.usn, 18);
94         pp.display(p.n, s.usn, 22);
95     }
96 }
```

```
E:\jdk8\bin\ooj lab>javac E2-w8.java
E:\jdk8\bin\ooj lab>java Personmain

The details of the person is as below:
Name:Aakash

The details of the employee is as below:
Name:Aakash
Employee id:123

The details of the teaching employee is as below:
Name:Aakash
Employee id:123
Job:Professor
The details of the non-teaching employee is as below:
Name:Aakash
Employee id:123
Job:Doctor

The details of the student is as below:
Name:Aakash
USN no:777777

The details of the UG student is as below:
Name:Aakash
USN no:777777
Age:18
The details of the PG student is as below:
Name:Aakash
USN no:777777
Age:22

E:\jdk8\bin\ooj lab>
```