

```

1  import java.util.Scanner;
2
3
4  class person
5  {
6      Scanner ss=new Scanner(System.in);
7      String name;
8  }
9
10 class employee extends person
11 {
12     int years_of_exp;
13 }
14
15 class teaching extends employee
16 {
17     String Dept;
18
19     teaching()
20     {
21         System.out.printf("Enter the details of the teacher: ");
22         System.out.printf("\nName: ");
23         name=ss.next();
24         System.out.printf("Years of Experience: ");
25         years_of_exp=ss.nextInt();
26         System.out.printf("Department: ");
27         Dept=ss.next();
28     }
29
30     public String toString()
31     {
32         return ("Details of teacher\nName:"+name+"\nYears of Experience: "+years_of_exp+"\nDepartment: "+Dept);
33     }
34 }

```

github.com/ishika22love/oop-java/blob/master/week8\_extra\_programs/EmpMain.java



```
16 class non_teaching extends employee
17 {
18     int building_no;
19
20     non_teaching()
21     {
22         System.out.printf("Enter the details of the non teaching staff: ");
23         System.out.printf("\nName: ");
24         name=ss.next();
25         System.out.printf("Years of Experience: ");
26         years_of_exp=ss.nextInt();
27         System.out.printf("Building Number: ");
28         building_no=ss.nextInt();
29     }
30
31     public String toString()
32     {
33         return ("Details of non teaching staff: \nName:"+name+"\nYears of Experience: "+years_of_exp+"\nBuilding Number: "+building_no);
34     }
35 }
36
37
38 class student extends person
39 {
40     String Dept;
41 }
42
43 class ug extends student
44 {
45     int semester;
46     ug()
47     {
48         System.out.printf("Enter the details of the UG student: ");
49         System.out.printf("\nName: ");
50         name=ss.next();
```

github.com/ishika22love/oop-java/blob/master/week8\_extra\_programs/EmpMain.java

```
63 class ug extends student
64 {
65     int semester;
66     ug()
67     {
68         System.out.printf("Enter the details of the UG student: ");
69         System.out.printf("\nName: ");
70         name=ss.next();
71         System.out.printf("Department: ");
72         Dept=ss.next();
73         System.out.printf("Semester: ");
74         semester=ss.nextInt();
75     }
76     public String toString()
77     {
78         return ("Details of UG Student: \nName:"+name+"\nDepartment : "+Dept+"\nSemester: "+semester);
79     }
80 }
81
82 class pg extends student
83 {
84     int semester;
85     pg()
86     {
87         System.out.printf("Enter the details of the PG student: ");
88         System.out.printf("\nName: ");
89         name=ss.next();
90         System.out.printf("Department: ");
91         Dept=ss.next();
92         System.out.printf("Semester: ");
93         semester=ss.nextInt();
94     }
95     public String toString()
96     {
```

```
80     System.out.printf("\nName: ");
81     name=ss.next();
82     System.out.printf("Department: ");
83     Dept=ss.next();
84     System.out.printf("Semester: ");
85     semester=ss.nextInt();
86 }
87 public String toString()
88 {
89     return ("Details of PG Student: \nName:"+name+"\nDepartment : "+Dept+"\nSemester: "+semester);
90 }
91 }
92
93 class EmpMain
94 {
95     public static void main(String args[])
96     {
97         teaching th=new teaching();
98         non_teaching nth=new non_teaching();
99         ug st_ug=new ug();
100         pg st_pg=new pg();
101         System.out.println(th);
102         System.out.println(nth);
103         System.out.println(st_ug);
104         System.out.println(st_pg);
105     }
106 }
```

