```java
 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  }
```

```java
class non_teaching extends employee
{
    int building_no;

    non_teaching()
    {
        System.out.printf("Enter the details of the non teaching staff: ");
        System.out.printf("\nName: ");
        name=ss.next();
        System.out.printf("Years of Experience: ");
        years_of_exp=ss.nextInt();
        System.out.printf("Building Number: ");
        building_no=ss.nextInt();
    }

    public String toString()
    {
        return ("Details of non teaching staff: \nName:"+name+"\nYears of Experience: "+years_of_exp+"\nBuilding Number: "+building_no);
    }
}


class student extends person
{
    String Dept;
}

class ug extends student
{
    int semester;
    ug()
    {
        System.out.printf("Enter the details of the UG student: ");
        System.out.printf("\nName: ");
        name=ss.next();
```

```java
class ug extends student
{
    int semester;
    ug()
    {
        System.out.printf("Enter the details of the UG student: ");
        System.out.printf("\nName: ");
        name=ss.next();
        System.out.printf("Department: ");
        Dept=ss.next();
        System.out.printf("Semester: ");
        semester=ss.nextInt();
    }
    public String toString()
    {
        return ("Details of UG Student: \nName:"+name+"\nDepartment : "+Dept+"\nSemester: "+semester);
    }
}

class pg extends student
{
    int semester;
    pg()
    {
        System.out.printf("Enter the details of the PG student: ");
        System.out.printf("\nName: ");
        name=ss.next();
        System.out.printf("Department: ");
        Dept=ss.next();
        System.out.printf("Semester: ");
        semester=ss.nextInt();
    }
    public String toString()
    {
```

```java
        System.out.printf("\nName: ");
        name=ss.next();
        System.out.printf("Department: ");
        Dept=ss.next();
        System.out.printf("Semester: ");
        semester=ss.nextInt();
    }
    public String toString()
    {
        return ("Details of PG Student: \nName:"+name+"\nDepartment : "+Dept+"\nSemester: "+semester);
    }
}

class EmpMain
{
    public static void main(String args[])
    {
        teaching th=new teaching();
        non_teaching nth=new non_teaching();
        ug st_ug=new ug();
        pg st_pg=new pg();
        System.out.println(th);
        System.out.println(nth);
        System.out.println(st_ug);
        System.out.println(st_pg);

    }
}
```