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import java.util.Scanner;
class Person
{
    Scanner sc=new Scanner(System.in);
    String name;
    void getData1()
    {
        System.out.println("Enter the name :");
        name=sc.next();
    }
}
class Employee extends Person
{
    String id;
    void getData2()
    {
        getData1();
        System.out.println("Enter the employee's id:");
        id=sc.next();
    }
}
class Teaching extends Employee
{
    String course;
    void getData3()
    {
        getData2();
        System.out.println("Enter the course taught by the teacher");
        course=sc.next();
    }
    void disp()
    {
        System.out.println("Name of the teacher:"+name);
        System.out.println("Id of the teacher:"+id);
        System.out.println("Course taught by the teacher:"+course);
    }
}
class nonTeaching extends Employee
{
    String work;
    void getData3()
    {
        getData2();
    }
}

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        System.out.println("Enter the work assigned to non teaching staff");
        work=sc.next();
    }
    void disp()
    {
        System.out.println("Name of the non Teaching staff:"+name);
        System.out.println("Id of the staff:"+id);
        System.out.println("Work done by the staff:"+work);
    }
}
class Student extends Person
{
    String id;
    void getData2()
    {
        getData1();
        System.out.println("Enter the student's id:");
        id=sc.next();
    }
}
class UG extends Student
{
    int sem;
    void getData3()
    {
        getData2();
        System.out.println("Enter the semester of student:");
        sem=sc.nextInt();
    }
    void disp()
    {
        System.out.println("Name of the student:"+name);
        System.out.println("Id of the student:"+id);
        System.out.println("Semester:"+sem);
    }
}
class PG extends Student
{
    int year;
    void getData3()
    {
        getData2();
        System.out.println("Enter the academic year of student:");
    }
}

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        year=sc.nextInt();
    }
    void disp()
    {
        System.out.println("Name of the student:"+name);
        System.out.println("Id of the student:"+id);
        System.out.println("Academic year:"+year);
    }
}
class PersonMain
{
    public static void main(String args[])
    {
        Teaching t=new Teaching();
        System.out.println("Details of the teacher:");
        t.getData3();
        t.disp();
        nonTeaching nt=new nonTeaching();
        System.out.println("Details of the non teaching staff:");
        nt.getData3();
        nt.disp();
        UG u=new UG();
        System.out.println("Details of the UG student:");
        u.getData3();
        u.disp();
        PG p=new PG();
        System.out.println("Details of the PG student:");
        p.getData3();
        p.disp();
    }
}

```