

```

2. import java.util.Scanner;
class Person
{
    String institution;
}
class Employee extends Person
{
    int empid;
}
class Teaching extends Employee
{
    String subject;
    void setData(String i, int eId, String s)
    {
        institution = i;
        empid = eId;
        subject = s;
    }
    void display()
    {
        System.out.println();
        System.out.println("--- TEACHING ---");
        System.out.println("Institution: " + institution);
        System.out.println("Employee ID: " + empid);
        System.out.println("Subject: " + subject);
    }
}
class Non-Teaching extends Employee
{
    String designation;
    void setData(String i, int eId, String d)
    {
        institution = i;
        empid = eId;
        designation = d;
    }
    void display()
    {
        System.out.println();
        System.out.println("--- NON-TEACHING ---");
    }
}

```

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```
System.out.println("Institution:" + institution);  
System.out.println("Employee ID:" + empId);  
System.out.println("Designation:" + designation);  
}
```

```
}  
  
class Student extends Person
```

```
{  
    String vsn;
```

```
}  
  
class VG extends Student
```

```
{  
    String branch;
```

```
    void setData(String i, String v, String b)
```

```
{  
    institution = i;
```

```
    vsn = v;
```

```
    branch = b;
```

```
}
```

```
    void display()
```

```
{  
    System.out.println();
```

```
    System.out.println(" --- VG --- ");
```

```
    System.out.println("Institution:" + institution);
```

```
    System.out.println("VSN: " + vsn);
```

```
    System.out.println("Branch: " + branch);
```

```
}
```

```
}  
  
class PG extends Student
```

```
{
```

```
    String specialization;
```

```
    void setData(String i, String v, String sp)
```

```
{  
    institution = i;
```

```
    vsn = v;
```

```
    specialization = sp;
```

```
}
```

```
    void display()
```

```
{  
    System.out.println();
```

```
    System.out.println(" --- PG --- ");
```

```
    System.out.println("Institution:" + institution);
```

```
System.out.println("VSN: "+vsn);  
System.out.println("Specialization: "+specialization);  
}
```

```
}
```

```
class PersonMain
```

```
{ public static void main(String args[])
```

```
{ String i, s, d, v, b, sp;  
int id;
```

```
Scanner sc = new Scanner(System.in);
```

```
Teaching ob1 = new Teaching();
```

```
Non-Teaching ob2 = new Non-Teaching();
```

```
UG ob3 = new UG();
```

```
PG ob4 = new PG();
```

```
System.out.println(" --- TEACHING ---");
```

```
System.out.println("Enter institution");
```

```
i = sc.next();
```

```
System.out.println("Enter employee ID");
```

```
id = sc.nextInt();
```

```
System.out.println("Enter the subject");
```

```
s = sc.next();
```

```
ob1.setData(i, id, s);
```

```
System.out.println(" --- NON-TEACHING ---");
```

```
System.out.println("Enter institution");
```

```
i = sc.next();
```

```
System.out.println("Enter employee ID");
```

```
id = sc.nextInt();
```

```
System.out.println("Enter the designation");
```

```
d = sc.next();
```

```
ob2.setData(i, id, d);
```

```
System.out.println(" --- UG ---");
```

```
System.out.println("Enter the institution");
```

```
i = sc.next();
```

```
System.out.println("Enter VSN");
```

```
v = sc.next();
```



System.out.println("Enter the <sup>branch</sup> ~~course~~");

b = sc.next();

ob3.setData(i, v, b);

System.out.println(" --- PG --- ");

System.out.println("Enter institution");

i = sc.next();

System.out.println("Enter USN");

u = sc.next();

System.out.println("Enter the specialization");

sp = sc.next();

ob4.setData(i, v, sp);

ob1.display();

ob2.display();

ob3.display();

ob4.display();

}

}

```
import java.util.Scanner;

class Person
{
    String institution;
}

class Employee extends Person
{
    int empid;
}

class Teaching extends Employee
{
    String subject;
    void setData(String i,int e_id,String s)
    {
        institution=i;
        empid=e_id;
        subject=s;
    }
    void display()
    {
        System.out.println();
        System.out.println("---TEACHING---");
        System.out.println("Institution: "+institution);
        System.out.println("Employee ID: "+empid);
        System.out.println("Subject: "+subject);
    }
}

class Non_Teaching extends Employee
{

```

```

String designation;
void setData(String i,int e_id,String d)
{
    institution=i;
    empid=e_id;
    designation=d;
}
void display()
{
    System.out.println();
    System.out.println("---NON-TEACHING---");
    System.out.println("Institution: "+institution);
    System.out.println("Employee ID: "+empid);
    System.out.println("Designation: "+designation);
}
}

class Student extends Person
{
    String usn;
}

class UG extends Student
{
    String branch;
    void setData(String i,String u,String b)
    {
        institution=i;
        usn=u;
        branch=b;
    }
}

```

```

void display()
{
    System.out.println();
    System.out.println("---UG---");
    System.out.println("Institution: "+institution);
    System.out.println("USN: "+usn);
    System.out.println("Branch: "+branch);
}
}

class PG extends Student
{
    String specialization;
    void setData(String i,String u,String sp)
    {
        institution=i;
        usn=u;
        specialization=sp;
    }
    void display()
    {
        System.out.println();
        System.out.println("---PG---");
        System.out.println("Institution: "+institution);
        System.out.println("USN: "+usn);
        System.out.println("Specialization: "+specialization);
    }
}

class PersonMain
{

```

```
public static void main(String args[])
{
    String i,s,d,u,b,sp;
    int id;
    Scanner sc=new Scanner(System.in);
    Teaching ob1=new Teaching();
    Non_Teaching ob2=new Non_Teaching();
    UG ob3=new UG();
    PG ob4=new PG();
    System.out.println("---TEACHING---");
    System.out.println("Enter institution");
    i=sc.next();
    System.out.println("Enter employee ID");
    id=sc.nextInt();
    System.out.println("Enter the subject");
    s=sc.next();
    ob1.setData(i,id,s);
    System.out.println("---NON-TEACHING---");
    System.out.println("Enter institution");
    i=sc.next();
    System.out.println("Enter employee ID");
    id=sc.nextInt();
    System.out.println("Enter the designation");
    d=sc.next();
    ob2.setData(i,id,d);
    System.out.println("---UG---");
    System.out.println("Enter institution");
    i=sc.next();
    System.out.println("Enter USN");
```



```
        u=sc.next();
        System.out.println("Enter the branch");
        b=sc.next();
        ob3.setData(i,u,b);
        System.out.println("---PG---");
        System.out.println("Enter institution");
        i=sc.next();
        System.out.println("Enter USN");
        u=sc.next();
        System.out.println("Enter the specialization");
        sp=sc.next();
        ob4.setData(i,u,sp);
        ob1.display();
        ob2.display();
        ob3.display();
        ob4.display();
    }
}
```

```
C:\Users\Adithi\Desktop\java_prgs>java PersonMain
```

```
---TEACHING---
```

```
Enter institution
```

```
BMSCE
```

```
Enter employee ID
```

```
12422
```

```
Enter the subject
```

```
JAVA
```

```
---NON-TEACHING---
```

```
Enter institution
```

```
BMSIT
```

```
Enter employee ID
```

```
78964
```

```
Enter the designation
```

```
Clerk
```

```
---UG---
```

```
Enter institution
```

```
BMSIT
```

```
Enter USN
```

```
1bm10cs001
```

```
Enter the branch
```

```
CSE
```

```
---PG---
```

```
Enter institution
```

```
BMSCE
```

```
Enter USN
```

```
1bm10PG
```

```
Enter the specialization
```

```
Computer
```

```
---TEACHING---
```

```
Institution: BMSCE
```

```
Employee ID: 12422
```

```
Subject: JAVA
```

```
---NON-TEACHING---
```

```
Institution: BMSIT
```

```
Employee ID: 78964
```

```
Designation: Clerk
```

```
---UG---
```

```
Institution: BMSIT
```

```
USN: 1bm10cs001
```

```
Branch: CSE
```

```
---PG---
```

```
Institution: BMSCE
```

```
USN: 1bm10PG
```

```
Specialization: Computer
```

```
C:\Users\Adithi\Desktop\java_prgs>_
```