Name: VYSHNAVI BABU S
Roll No: 55
Batch: MCA - B
Date: 17-05-2022

Experiment No.: 12

Aim

Create a class 'Person' with data members Name, Gender, Address, Age and a constructor to initialize the data members and another class 'Employee' that inherits the properties of class Person and also contains its own data members like Empid, Company_name, Qualification, Salary and its own constructor. Create another class 'Teacher' that inherits the properties of class Employee and contains its own data members like Subject, Department, Teacherid and also contain constructors and methods to display the data members. Use array of objects to display details of N teachers.

Program

```java
import java.util.*;
 class Person
{
   String name;
   String gender;
   String address;
   int age;
   Scanner sc=new Scanner(System.in);
 public Person()
{
   System.out.println("ENTER THE DETAILS");
```

```java
        System.out.println("enter the name");

        name = sc.next();

        System.out.println("enter the gender");

        gender = sc.next();

        System.out.println("enter the address");

        address = sc.next();

        System.out.println("enter the age");

        age = sc.nextInt();

}

}

class Employee extends Person

{

    int empid;

    String company_name;

    String qualification;

    int salary;

   Scanner em= new Scanner(System.in);

   public Employee()

   {

    System.out.println("enter the id");

    empid = em.nextInt();

    System.out.println("enter the company name");

   company_name = em.next();

    System.out.println("enter the qualification");

    qualification = em.next();

    System.out.println("enter monthly salary");

    salary = em.nextInt();

   }
```

```java
}
class Teacher extends Employee
{
    String subject;
    String department;
    int tid;
    Scanner tr = new Scanner(System.in);
    public Teacher()
    {
    System.out.println("emter the details of teacher");
    System.out.println("enter the subject");
    subject = tr.next();
    System.out.println("enter the department");
    department = tr.next();
    System.out.println("enter his id");
    tid = tr.nextInt();
    }
    public void display()
    {
    System.out.println("------Teacher details-------");
    System.out.println("The name:"+name);
    System.out.println("The gender:"+gender);
    System.out.println("The address:"+address);
    System.out.println("The age:"+age);
    System.out.println("employee id:"+empid);
    System.out.println("company_name:"+company_name);
    System.out.println("qualification:"+qualification);
    System.out.println("salary:"+salary);
```

```java
  System.out.println("subject:"+subject);
  System.out.println("department:"+department);
  System.out.println("teacher id:"+tid);
   }
}
 public class Inherit
 {
public static void main(String[] args)
 {
 Scanner te = new Scanner(System.in);
 int i;
 System.out.println("Enter number of teachers: ");
 int n=te.nextInt();
 Teacher t[]=new Teacher[n];
 for(i=0;i<n;i++)
 {
   t[i]=new Teacher();
 }
 for(i=0;i<n;i++)
 {
 t[i].display();
 }
 }
}
```

Output Screenshot

```
                at Inherit.main(Inherit.java:83)

D:\>java Inherit
Enter number of teachers:
1
ENTER THE DETAILS
enter the name
manju
enter the gender
female
enter the address
abcstreet
enter the age
30
enter the id
123
enter the company name
zyzcomp
enter the qualification
btech
enter monthly salary
30000
emter the details of teacher
enter the subject
engineering
enter the department
engineering
enter his id
123
------Teacher details-------
The name:manju
The gender:female
The address:abcstreet
The age:30
employee id:123
company_name:zyzcomp
qualification:btech
salary:30000
subject:engineering
department:engineering
teacher id:123
```