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import java.util.Scanner;

public class Main {
    public static void main(String[] args){
        MyDate date = new MyDate();
        Person P =new Person();
        Student S = new Student();
        Employee E = new Employee();
        UnderGradStud UGS = new UnderGradStud();
        PostGradStudent PGS = new PostGradStudent();
        PhdStud phds = new PhdStud();
        MasterStud ms = new MasterStud();
        int test ,SID,EID , day ,month ,year, CLASS , RI;
        double GRAD , GPA ,SALARY,HOURS,RD ;
        String NAME , SSN, ADDRESS , EMAIL ,BIRTHDAY,RS ;
        Scanner sc = new Scanner(System.in);
        //-----
        System.out.println("-----TESTING-----");
        System.out.println("Entering Person Information");
        System.out.println();
        System.out.print("Please Enter your National Number"+" :");
        SSN = sc.nextLine();
        P.setSsn(SSN);
        //sc.nextLine();
        System.out.print("Please Enter your Name"+" :");
        NAME=sc.nextLine();
        P.setName(NAME);
        System.out.print("Please Enter your EMail"+" :");
        EMAIL=sc.nextLine();
        P.setEmail(EMAIL);
        System.out.print("Please Enter your Address"+" :");
        ADDRESS=sc.nextLine();
        P.setAddress(ADDRESS);

        System.out.print("Please Enter your BirthDay like this day ,month and
year"+" :");
        day = sc.nextInt();
        month =sc.nextInt();
        year = sc.nextInt();
        P.setBDate(day,month,year);

        System.out.println("Please Enter 1 if you are steudent and Enter 2 if you
are Employee");

        test = sc.nextInt();
        if (test==1){
            System.out.println("Entering Student Information");
            System.out.println();
            System.out.println("Please Enter Your ID : ");
            SID=sc.nextInt();
            S.setSID(SID);
            System.out.println("Please Enter YOur Grad : " );
            GRAD=sc.nextDouble();
            S.setGrad(GRAD);
            System.out.println("Please Enter Your Class Statu Number 1,2,3,or 4
and 5 for master Student or 6 for PHDStudent: ");
            CLASS = sc.nextInt();
            S.setClass_statu(CLASS);
            System.out.println("Please Enter 1 if you are undergraduate Student
or 2 if you are Postgraduate Student");
            test=sc.nextInt();
            if(test==1){
                System.out.println("Entering UnderGraduate Student Information");
                System.out.println();
                System.out.println("Please Enter Your GPA : ");
                GPA=sc.nextDouble();
                UGS.setGPA(GPA);
            }
        }
    }
}

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        System.out.println("Please Enter Your Cridet Hours : ");
        HOURS=sc.nextDouble();
        UGS.setHours(HOURS);

    }else {
        System.out.println("You are PostGraduate Stedent and Your
Information : ");
    }
}
}else
{
    System.out.println("Entering Employee Information");
    System.out.println();
    System.out.println("Please Enter Your ID : ");
    EID=sc.nextInt();
    E.setEID(EID);
    System.out.println("Please Enter Your Salary : ");
    SALARY=sc.nextDouble();
    E.setSalary(SALARY);
    System.out.println("Please Enter your HDate like this day ,month and
year\\"+"\\\" :");
    day = sc.nextInt();
    month =sc.nextInt();
    year = sc.nextInt();
    E.setHDate(day,month,year);
}
System.out.println("Please Enter 1 to display person information");
System.out.println("Please Enter 2 to display Student information");
System.out.println("Please Enter 3 to display UnderGraduate Student
information");
System.out.println("Please Enter 4 to display PostGraduate Student
information");
System.out.println("Please Enter 5 to display Master Student information");
System.out.println("Please Enter 6 to display PHD Student information");
System.out.println("Please Enter 7 to display Employee information");
test=sc.nextInt();
if(test==1){
    System.out.println("----- Person Information-----");
    System.out.println();
    RS=P.getSsn();
    System.out.println("SSN: "+RS);
    RS = P.getName();
    System.out.println("Name: "+RS);
    RS = P.getAddress();
    System.out.println("Address: "+RS);
    RS = P.getEmail();
    System.out.println("Email: "+RS);
    date = P.getBDate();
    System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
}
if(test==2){
    System.out.println("----- Student Information-----");
    System.out.println();
    RS=S.getSsn();
    System.out.println("SSN: "+RS);
    RS = S.getName();
    System.out.println("Name: "+RS);
    RS = S.getAddress();
    System.out.println("Address: "+RS);
    RS = S.getEmail();
    System.out.println("Email: "+RS);
    date = S.getBDate();
    System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
    RI=S.getSID();
    System.out.println("SID : "+RI);
    RD=S.getGrad();
    System.out.println("Grad : "+RD);
    RI=S.getClass_statu();

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        System.out.println("Clas_Statu : "+RI);
    }
    if(test==3){
        System.out.println("----- UnderGraduate Student
Information-----");
        System.out.println();
        RS=UGS.getSsn();
        System.out.println("SSN: "+RS);
        RS = UGS.getName();
        System.out.println("Name: "+RS);
        RS = UGS.getAddress();
        System.out.println("Address: "+RS);
        RS = UGS.getEmail();
        System.out.println("Email: "+RS);
        date = UGS.getBDate();
        System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
        RI=UGS.getSID();
        System.out.println("SID : "+RI);
        RD=UGS.getGrad();
        System.out.println("Grad : "+RD);
        RI=UGS.getClass_statu();
        System.out.println("Clas_Statu : "+RI);
        RD =UGS.getGPA();
        System.out.println("GPA : "+RD);
        RD =UGS.getHours();
        System.out.println("Cridet Hours : "+RD);

    }
    if(test==4){
        System.out.println("----- PostGraduate Student
Information-----");
        System.out.println();
        RS=PGS.getSsn();
        System.out.println("SSN: "+RS);
        RS = PGS.getName();
        System.out.println("Name: "+RS);
        RS = PGS.getAddress();
        System.out.println("Address: "+RS);
        RS = PGS.getEmail();
        System.out.println("Email: "+RS);
        date = PGS.getBDate();
        System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
        RI=PGS.getSID();
        System.out.println("SID : "+RI);
        RD=PGS.getGrad();
        System.out.println("Grad : "+RD);
        RI=PGS.getClass_statu();
        System.out.println("Clas_Statu : "+RI);
    }
    if(test==5){
        System.out.println("----- Master Student
Information-----");
        System.out.println();
        RS=ms.getSsn();
        System.out.println("SSN: "+RS);
        RS = ms.getName();
        System.out.println("Name: "+RS);
        RS = ms.getAddress();
        System.out.println("Address: "+RS);
        RS = ms.getEmail();
        System.out.println("Email: "+RS);
        date = ms.getBDate();
        System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
        RI=ms.getSID();
        System.out.println("SID : "+RI);
        RD=ms.getGrad();
        System.out.println("Grad : "+RD);
    }

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        RI=ms.getClass_statu();
        System.out.println("Clas_Statu : "+RI);
    }
    if(test==6){
        System.out.println("----- PHD Student
Information-----");
        System.out.println();
        RS=phds.getSsn();
        System.out.println("SSN: "+RS);
        RS = phds.getName();
        System.out.println("Name: "+RS);
        RS = phds.getAddress();
        System.out.println("Address: "+RS);
        RS = phds.getEmail();
        System.out.println("Email: "+RS);
        date = phds.getBDate();
        System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
        RI=phds.getSID();
        System.out.println("SID : "+RI);
        RD=phds.getGrad();
        System.out.println("Grad : "+RD);
        RI=phds.getClass_statu();
        System.out.println("Clas_Statu : "+RI);
    }
    if(test==7){
        System.out.println("----- Employee Information-----");
        System.out.println();
        RS=E.getSsn();
        System.out.println("SSN: "+RS);
        RS = E.getName();
        System.out.println("Name: "+RS);
        RS = E.getAddress();
        System.out.println("Address: "+RS);
        RS = E.getEmail();
        System.out.println("Email: "+RS);
        date = E.getBDate();
        System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
        RI=E.getEID();
        System.out.println("EID : "+RI);
        date = E.getHDate();
        System.out.println(date.Day+"/"+date.Month+"/"+date.Year);
        RD=E.getSalary();
        System.out.println("Salary : "+RD);

    }

}

}
}

```