

TASK#01 (SCHOOL MANAGEMENT SYSTEM)**CODE:****MODULE #01**

```
package schoolmanagementsystem;
```

```
public class Module1 {
    String Sname,Fname,Class,lastclass; double passpercent;int rollno;
    public void StudentsBiodata(String Sname,String Fname,String Class,String
lastclass,double passpercent,int rollno){
        this.Sname=Sname;
        this.Fname=Fname;
        this.Class=Class;
        this.lastclass=lastclass;
        this.passpercent=passpercent;
        this.rollno=rollno;
    }

    void display(){
        System.out.println("-----");
        System.out.println("Student's Name: "+Sname);
        System.out.println("Father's Name: "+Fname);
        System.out.println("Roll#: "+rollno);
        System.out.println("Class :"+Class);
        System.out.println("Last Class that has been passe: "+lastclass);
        System.out.println("Gained Passing Marks: "+passpercent+"%");
        System.out.println("");
        System.out.println("-----");
    }
}
```

MODULE #02

```
package schoolmanagementsystem;
```

```
public class Module2 {
    public void FeesStructure(){
        System.out.println("The Fee criteria in this school is mention below, Please have a
look ");
        System.out.println("ADMISSION FEE: "+10000+"Rs");
        System.out.println("MONTHLY FEE: "+2500+"Rs");
        System.out.println("EXTRACIRCULUM FEE: "+1000+"Rs");
        System.out.println("GAME/SPORTS FEE: "+500+"");
        System.out.println("In total Amount: "+14000+"Rs");

        System.out.println("NOTE: IF YOU WILL NOT PAY THE FEE YOU CAN
NOT GET THE STUDENTS RESULT");
        System.out.println("\n");
    }
}
```

```

        double admfee,monthfee,extracirfee,gamefee,totalamount;
        public void Fees(double admfee,double montfee,double extracirfee,double
gamefee,double totalamount){
            this.admfee=admfee;          this.extracirfee=extracirfee;          this.monthfee=montfee;
this.gamefee=gamefee; this.totalamount=totalamount;
        }

        void payement(){
            System.out.println("-----");
            System.out.println("You have paid: "+admfee);
            System.out.println("You have paid: "+monthfee);
            System.out.println("you have paid: "+extracirfee);
            System.out.println("you have paid: "+gamefee);
            System.out.println("you have exact paid the total amount Rs:"+totalamount);

            System.out.println("Now you can collect the students report
card");System.out.println("\n");
        }
    }
}

```

MODULE #03

```

package schoolmanagementsystem;
    double eng,phy,percent,totalmarks;
    public void Marks(double eng,double phy){
        this.eng=eng;
        this.phy=phy;
    }

    public void Result(){
        System.out.println("-----");
        totalmarks=eng+phy;
        System.out.println("The total marks of two subjects are: "+totalmarks);

        percent=(totalmarks*100)/200;

        System.out.println("Total Percentage= "+percent+"%");

        if(percent >= 80.00 && percent<=100.00 ){
            System.out.println("Grade: A+");}
        else if(percent < 80.00 && percent>70.00){
            System.out.println("Grade: A");}
        else if(percent < 70.00 && percent>60.00){
            System.out.println("Grade: B");}
        else if(percent < 60.00 && percent>50.00){
            System.out.println("Grade: C");}
    }
}

```

```

    else if(percent < 50.00 && percent>40.00){
        System.out.println("Grade: D");}
    else{
        System.out.println("Grade: F");}
    System.out.println("");
    System.out.println("-----");}
}

```

SCHOOL MANAGEMENT SYSTEM (MAIN CLASS):

```

package schoolmanagementsystem;
import java.util.*;
public class SchoolManagementSystem {

    public static void main(String[] args) {
        Scanner obj=new Scanner(System.in);

        int select=0;

        while(select!=4){
            System.out.println("NOTE: YOU HAVE TO PROCESS ALL THE STEPS
ONE BY ONE");
            System.out.println("Menu & Module Option");
            System.out.println("1- Student's Detail");
            System.out.println("2- Fee Payments");
            System.out.println("3- Percentage Calculation & Status");
            System.out.println("4- EXIT ");

            System.out.println("Select the page by inserting the no#");
            select=obj.nextInt();
            System.out.println("-----");
            switch(select){
                case 1:

                    Module1 obj1=new Module1();

                    System.out.println("Enter Student's name");
                    obj1.Sname=obj.nextLine();
                    obj1.Sname=obj.nextLine();

                    System.out.println("Enter Roll Number");
                    obj1.rollno=obj.nextInt();

                    System.out.println("Enter Father's name ");
                    obj1.Fname=obj.nextLine();
                    obj1.Fname=obj.nextLine();
                    System.out.println("Enter Student's Class");

```

```
obj1.Class=obj.nextLine();
```

```
System.out.println("Enter Last class that student has passed");
obj1.lastclass=obj.nextLine();
```

```
System.out.println("Enter the previous previous percentage% that
students has gained in "+obj1.lastclass+" class");
obj1.passpercent=obj.nextDouble();
System.out.println("\n");
obj1.StudentsBiodata(obj1.Sname,      obj1.Fname,      obj1.Class,
obj1.lastclass, obj1.passpercent, obj1.rollno);
obj1.display();
```

case 2:

```
Module2 obj2=new Module2();
obj2.FeesStructure();
```

```
System.out.println("Welcome to the FEE COUNTER Desk ");
```

```
System.out.println("Please, Pay the Admission Fee Rs 10,000 ");
obj2.admfee=obj.nextDouble();
if(obj2.admfee !=10000){
    System.out.println("No, You have to pay exactly 10000 Rs
otherwise you can not get the student's report card");
    System.out.println("Enter 10000Rs for Admission fee ");
    obj2.admfee=obj.nextDouble();}
else{
    System.out.println("Admission fee accepted");}
```

```
System.out.println("Please, Pay Monthly Fee Rs 2,500");
obj2.monthfee=obj.nextDouble();
if(obj2.monthfee !=2500){
    System.out.println("No, You have to pay exactly 2500 Rs
otherwise you can not get the student's report card");
    System.out.println("Enter 2500Rs for Monthly tuition fee ");
    obj2.admfee=obj.nextDouble();}
else{
    System.out.println("Monthly fee accepted");
}
```

```
System.out.println("Please, Pay the Extracirculum Fee  Rs 1000");
obj2.extracirfee=obj.nextDouble();
```

```

        if(obj2.extracirfee !=1000){
            System.out.println("No, You have to pay exactly 1000 Rs
otherwise you can not get the student's report card");
            System.out.println("Enter 1000Rs for Monthly tuition fee ");
            obj2.extracirfee=obj.nextDouble();}
        else{
            System.out.println("Extracirculum fee accepted");}
        System.out.println("\n");

        System.out.println("Please, Pay the Sports/Game Fee Rs 500");
        obj2.gamefee=obj.nextDouble();
        if(obj2.gamefee !=500){
            System.out.println("No, You have to pay exactly 500 Rs
otherwise you can not get the student's report card");
            System.out.println("Enter 500 Rs for Monthly tuition fee ");
            obj2.gamefee=obj.nextDouble();}
        else{
            System.out.println("Game/Sports fee accepted");
            System.out.println("\n");}

        obj2.totalamount=obj2.admfee+obj2.monthfee+obj2.extracirfee+obj2.gamefee;
        obj2.Fees(obj2.admfee,      obj2.monthfee,      obj2.extracirfee,
        obj2.gamefee,obj2.totalamount);

        obj2.payement();

```

```

        case 3:
            Module3 obj3=new Module3();
            System.out.println("-----");
            System.out.println("Enter your   English Marks out of
100");

            obj3.eng=obj.nextDouble();
            if(obj3.eng >= 50 && obj3.eng <=100){
                System.out.println("English Status: PASSED");}
            else{
                System.out.println("English Status: FAILED ");}
            System.out.println("Enter your Physics Marks out of
100");

            obj3.phy=obj.nextDouble();
            if(obj3.phy >= 50 && obj3.phy <=100){
                System.out.println("Physics Status: PASSED");}
            else{
                System.out.println("Physics status: FAILED");}

```

```
obj3.Marks(obj3.eng, obj3.phy);

obj3.Result();

break;

default:
    System.out.println("You have left the menu card");
}
}
}
```

TASK#02 LIBRARY MANAGEMENT SYSTEM**CODE:****MODULE 1**

```

package librarymanagementsystem;
public class Module1 {
    String name,fname,Class,Unid,id;
    public void UserInfo(String N, String FN, String C,String Uni,String id){
        name=N;
        fname=FN;
        Class=C;
        Unid=Uni;
        id=id;
    }

    public void Display(){
        System.out.println("User Name: "+name);
        System.out.println("Father's Name: "+fname);
        System.out.println("Class: "+Class);
        System.out.println("University Id: "+Unid);
        System.out.println("Id: "+id);
    }
}

```

MODULE 2

```

package librarymanagementsystem;
public class Module2 {

    public void PhysicsDepartment(){
        System.out.println("The availability of books in Physics Deaprtment:");
        String []Physics={"1- Astronomical Physics","2- Particle Physics","3- Meta Physics","4- Atomic Physics","5- Dynamics","6- Kinematics","7- Solid state Physics","7- Nuclear Physics","8- Electromagnetism","9- Astromy"};
        for (String i: Physics){

            System.out.println("-----");
            System.out.println(i);}
    }

    public void ChemistryDepartment(){
        System.out.println("The availability of books in Physics Deaprtment:");
        String []Chemistry={"1- Organic Chemistry","2- Inorgaic Chemiistry","3- Bio Chemistry","4- Nuclear Chemistry","5- Environmental Chemistry", "6- Polymeric Chemistry","7- Analytic Chemistry"};
        for(String i: Chemistry){

```

```

System.out.println("-----");
    System.out.println(i);}
}

    public void MathDepartment(){
        System.out.println("The availability of books in Physics Deaprtment:");
        System.out.println("");
        String []Math={"1- Basic Math", "2- Advance Math", "3- Calculus & Analytical
Geometry","4- Lineatr Algebra","5- Complex Variable"};
        for(String i: Math){

System.out.println("-----");
    System.out.println(i);}
}

    public void BioDepartment(){
        System.out.println("The availability of books in Biology Department");
        String Biology[]={"1- zoology","2- Botany","3- Molecular Biology", "4- Essential
cells Biology", "5- principles of biology"};
        for(String i: Biology){

System.out.println("-----");
    System.out.println(i);}
}
}

```

LIBRARY MANAGEMENT SYSTEM (MAIN CLASS):

```

package librarymanagementsystem;
import java.util.*;
public class LibraryManagementSystem {
    public static void main(String[] args) {
        Scanner obj=new Scanner(System.in);
        Module1 obj1=new Module1();

        System.out.println("\n Enter the user's name");
        obj1.name=obj.nextLine();

        System.out.println("\n Enter the Father's name");
        obj1.fname=obj.nextLine();

        System.out.println("\n Enter User Id");
        obj1.id=obj.nextLine();

        System.out.println("\n Enter class");
    }
}

```



```
obj1.Class=obj.nextLine();

System.out.println("\n Enter University Id");
obj1.Unid=obj.nextLine();

obj1.UserInfo(obj1.name, obj1.fname, obj1.Class, obj1.Unid, obj1.id);

    System.out.println();
obj1.Display();

int select=0;
while(select !=5){
    System.out.println("Enter your choice for selecting the departments ");
    System.out.println("1-   Physics           2-   Chemistry       3-Biology
4-Mathematics 5-Exit");
    select=obj.nextInt();

    switch(select){
        case 1:
Module2 obj2=new Module2();
obj2.PhysicsDepartment();
break;
        case 2:
Module2 obj3=new Module2();
obj3.ChemistryDepartment();
break;
        case 3:
Module2 obj4=new Module2();
obj4.MathDepartment();
break;
        case 4:
Module2 obj5=new Module2();
obj5.BioDepartment();
break;
    }
}
}}
```