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package librarymanagementsystem;
import java.util.Scanner;

class Module1 {
public int id;
String name;
String c; String uid;

public void Identity(String name,String c,String uid){
this.name=name;this.c=c;this.uid=uid;}

public void ShowDisplay(){
id=(int)(Math.random()*100000);

    System.out.println("Students Name: "+name);
    System.out.println("Id Number#:      "+id);
    System.out.println("Class:          "+c);
    System.out.println("University Id: "+uid);

}
}
class Module2 {

    public void chembooks(){
        String Chemistry[]={ "1- Physical chemistry\n", "2- Organic chemistry\n", "3- Inorganic
chemistry\n",
        "4- Analytical chemistry\n", "5- Polymeric chemistry\n ", "6- Bio Chemistry\n", "7- Nuclear
Chemistry\n", "8-Atomic Chemistry\n", "9- Environmental Chemistry\n", "10- Physical Chemistry\n"};
        for (String i: Chemistry){

            System.out.println(i);}    }

    public void phybook(){
        String Phy[]={ "1- Atomic Physics\n", "2- Nuclear Physics\n", "3- Plasma Physics\n", "4-Solid State
Physics\n", "5-Astro Physics\n", "6- Industrial Physics\n ", "7- Partical Physics\n",
        "8- Environmental Physics\n", "9-Kinematics\n", "10- Dynamics\n", "11- Mechanics\n"};

        for (String i: Phy){

            System.out.println(i);}    }

    public void biobook(){
        String Bio[]={ "1- Botany\n", "2- ZOOLOGY\n", "3- Biological Explicity\n", "4- Medical and
Pharmeutical science\n", "5- Fungi and Bactetrial Behaviour\n"};
        for (String i: Bio){

            System.out.println(i);}    }

}

public class LibraryManagementSystem {

    public static void main(String[] args) {

        Scanner obj=new Scanner(System.in);
        System.out.println();
        System.out.println("_____");
        System.out.println("Welcome to the Library Management System");
```

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System.out.println("_____");

int select=0;

while(select!=3){
    System.out.println("You are requested to follow the step by step procedures");
    System.out.println("Press \n 1- User Id \n 2- Books Library    \n 3-exit");
    select=obj.nextInt();

    switch(select){
        case 1:
            Module1 obj1=new Module1();
            System.out.println("Hello Students.... We welcome you to come in this Library");

            System.out.println("Enter your Name");
            obj1.name=obj.nextLine(); obj1.name=obj.nextLine();

            System.out.println(obj1.name+" In which class do you study??");
            obj1.c=obj.nextLine();

            System.out.println(obj1.name+ " Kindly insert your University Id: \n");
            obj1.uid=obj.nextLine();

            obj1.Identity(obj1.name, obj1.c, obj1.uid);

            obj1.ShowDisplay();
            break;

        case 2:
            Module2 obj2=new Module2();
            System.out.println("We still have Three Section");
            int choice=0;
            while(choice!=4){
                System.out.println();
                System.out.println("Press 1- Chemistry\n 2- Physics\n 3- Biology\n 4- Back to
Menu");
                choice =obj.nextInt();

                if(choice ==1){
                    System.out.println("\n Chemistry Section");
                    obj2.chembooks();
                    System.out.println("-----");
                }
                else if(choice ==2){ System.out.println("\n Physics Section");
                    obj2.phybook();
                    System.out.println("-----");}
                else if(choice ==3){
                    System.out.println("-----");
                    System.out.println("\n Biology Section");
                    obj2.biobook();}
                else{
                    System.out.println("Sorry, Wrong Button Pressed, Try Again");
                    while(choice ==1 || choice==2 || choice ==3 ){
                        choice =obj.nextInt();
                    }
                }
            }
            break;
    }
}
```

}

}

}