import java.util.\*;

class Details{

int rollnumber, fee, yearOfStudy;

long aadharnumber;

String name, DOB, gender, address;

public Details(int id, String name, String gender, Long aadharnumber, String DOB, int fee, int yearOfStudy, String address){

this.rollnumber = rollnumber;

this.name = name;

this.gender = gender;

this.aadharnumber = aadharnumber;

this.DOB = DOB;

this.fee = fee;

this.yearOfStudy = yearOfStudy;

this.address = address;

}

}

class Sdnt{

public static void main(String[] args) {

Scanner sc = new Scanner (System.in);

ArrayList <Details> sdnt = new ArrayList<Details>();

int rollnumber, fee, yearOfStudy,s\_rn,count = 0,co;

long aadharnumber;

String name, DOB, gender, address;

boolean f = true;

System.out.println("Menu");

System.out.println("1. Add Student Details\n2. View Single Student Details\n3. View All Student Details\n4. Update Student Details\n5. Delete Student Details\n6. exit");

while(f){

System.out.print("Enter your choice : ");

int n = sc.nextInt();

boolean flag = false;

switch(n){

case 1 :

System.out.println("Enter the details\n");

System.out.print("Enter Rollnumber : ");

rollnumber = sc.nextInt();

System.out.print("Enter Name : ");

name = sc.next();

System.out.print("Enter Gender (M/F/O) : ");

gender = sc.next();

System.out.print("Enter Aadhar number : ");

aadharnumber = sc.nextLong();

System.out.print("Enter DOB(DD/MM/YYYY) : ");

DOB = sc.next();

System.out.print("Enter Fees : ");

fee = sc.nextInt();

System.out.print("Enter the Year Of Study : ");

yearOfStudy = sc.nextInt();

System.out.print("Enter the address : ");

address = sc.next();

sdnt.add(new Details(rollnumber, name, gender, aadharnumber, DOB, fee, yearOfStudy, address));

count++;

System.out.println("Student Details added sucessfully !");

break;

case 2 :

System.out.print("Enter the Roll number : ");

s\_rn = sc.nextInt();

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("|ROLLNUMBER\t|NAME\t|GENDER\t|AADHAR NUMBER\t|DOB\t\t|FEE\t|STUDY\t|ADDRESS\t|");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_");

for(Details d : sdnt){

if(s\_rn == d.rollnumber){

System.out.println("|"+d.rollnumber+"\t|"+d.name+"\t|"+d.gender+"\t|"+d.aadharnumber+"\t|"+d.DOB+"\t|"+d.fee+"\t|"+d.yearOfStudy+"\t\t|"+d.address+"\t\t|");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_");

flag = true;

break;

}

}

if(!flag){

System.out.println("Incorrect ROLL NUMBER, PLEASE ENTER CORRECT ROLL NUMBER ");

}

break;

case 3 :

System.out.println("The List of the students are : ");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("|ROLLNUMBER\t|NAME\t|GENDER\t|AADHAR NUMBER\t|DOB\t\t|FEE\t|STUDY\t|ADDRESS\t|");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_");

for(Details d : sdnt){

System.out.println("|"+d.rollnumber+

"\t|"+d.name+

"\t|"+d.gender+

"\t|"+d.aadharnumber+

"\t|"+d.DOB+

"\t|"+d.fee+

"\t|"+d.yearOfStudy+

"\t\t|"+d.address+"\t\t|");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_");

}

break;

case 4 :

System.out.println("Enter the Student Roll number : ");

s\_rn = sc.nextInt();

for(Details d : sdnt){

if(s\_rn == d.rollnumber){

System.out.println("Menu");

System.out.println("1.Name\n2.Gender\n3.Aadhar Number\n4.DOB\n5.Fee\n6.Years Of Study\7.Address");

System.out.print("Enter the option that you want to edit : ");

int opt = sc.nextInt();

String a;

int b;

long c;

switch(opt){

case 1:

System.out.print("Enter the updated name : ");

a = sc.next();

d.name = a;

break;

case 2:

System.out.print("Enter the updated Gender : ");

a = sc.next();

d.gender = a;

break;

case 3:

System.out.print("Enter the updated Aadhar number : ");

c = sc.nextLong();

d.aadharnumber = c;

break;

case 4:

System.out.print("Enter the updated DOB : ");

a = sc.next();

d.DOB = a;

break;

case 5:

System.out.print("Enter the updated Fee : ");

b = sc.nextInt();

d.fee = b;

break;

case 6:

System.out.print("Enter the updated Years of Study : ");

b = sc.nextInt();

d.yearOfStudy = b;

break;

case 7:

System.out.print("Enter the updated Address : ");

a = sc.next();

d.address = a;

break;

}

flag = true;

break;

}

}

if(!flag){

System.out.println("Incorrect Roll number, PLEASE ENTER CORRECT ROLL NUMBER ");

}

break;

case 5 :

System.out.print("Enter the Student roll number to be deleted : ");

s\_rn = sc.nextInt();

co = 0;

for(Details d : sdnt){

if(s\_rn == d.rollnumber ){

sdnt.remove(d);

count--;

flag = true;

break;

}

}

if(!flag){

System.out.println("Incorrect Roll number, PLEASE ENTER CORRECT ROLL NUMBER ");

}else{

System.out.println("Student Details deleted successfully");

}

break;

case 6 :

f = false;

break;

default:

System.out.println("Enter the correct option from the menu");

}

}

}

}