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package A1;
/**
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import java.util.Scanner;
class Student{
   private int regno;
    private String name, dept;
    private float mark[]=new float[3];
    private float total;
    private char grade;
    static int create(Student stu[]){
        int n,i;
        Scanner in=new Scanner(System.in);
        System.out.println("Enter number of records: ");
        n=in.nextInt();
        for (i=0;i<n;i++)
            stu[i]=new Student();
            System.out.println("Enter regno : ");
            stu[i].regno=in.nextInt();
            stu[i].name=in.nextLine();
            System.out.println("Enter name : ");
            stu[i].name=in.nextLine();
            System.out.println("Enter dept : ");
            stu[i].dept=in.nextLine();
            System.out.println("Enter mark 1: ");
            stu[i].mark[0]=in.nextFloat();
            System.out.println("Enter mark 2: ");
            stu[i].mark[1]=in.nextFloat();
            System.out.println("Enter mark 3: ");
            stu[i].mark[2]=in.nextFloat();
            stu[i].setDetail(stu[i]);
            stu[i].result();
        return n;
    }
    private void setDetail(Student stu){
        this.regno=stu.regno;
        this.name=stu.name;
        this.dept=stu.dept;
        this.mark=stu.mark;
    }
    private void result(){
        total=mark[0]+mark[1]+mark[2];
        if(total>250)
            grade='A';
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else if(total>200)
        grade='B';
    else
        grade='C';
}
static int search(Student stu[], int regno, int n)
    int i;
    for (i=0;i<n;i++) {
        if (stu[i].regno==regno) {
            stu[i].print();
            return i;
        }
    }
    return -1;
}
static int search(Student stu[], String dept, int n)
    int i, count=0;
    for (i=0;i<n;i++) {
        if (dept.compareTo(stu[i].dept) == 0) {
            stu[i].print();
            count++;
        }
    }
    return count;
}
void print(){
    System.out.println("\nRegno : "+regno);
    System.out.println("Name : "+name);
    System.out.println("Dept : "+dept);
}
static void marksheet(Student stu[],int n){
    int sregno, i;
    Scanner in=new Scanner(System.in);
    System.out.println("Enter regno: ");
    sregno=in.nextInt();
    i=Student.search(stu,sregno,n);
    if (i!=-1)
        System.out.println("Mark 1: "+stu[i].mark[0]);
        System.out.println("Mark 2: "+stu[i].mark[1]);
        System.out.println("Mark 3: "+stu[i].mark[2]);
        System.out.println("
        System.out.println("Total : "+stu[i].total);
        System.out.println("
        System.out.println("Grade : "+stu[i].grade);
    }
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else
            System.out.println("Regno does not exist!");
    }
}
public class StuRec {
    public static void main(String[] args) {
        int n=0,i,index,count=0,choice=1;
        int sregno;
        String sdept;
        Scanner in=new Scanner(System.in);
        Student stu[]=new Student[20];
        System.out.println("Choice:\n1. Enter student details\n2.
Display Record\n3. Generate particular marksheet\n4. Search student
based on regno\n5. Search student based on department\n6.
Exit\nEnter choice: ");
        choice=in.nextInt();
        while(choice!=6){
            if (choice==1) {
                n=Student.create(stu);
            else if(choice==2){
                for (i=0; i< n; i++) {
                    stu[i].print();
            }
            else if(choice==3){
                        Student.marksheet(stu,n);
            else if(choice==4) {
                System.out.println("Enter regno to search: ");
                sreqno=in.nextInt();
                index=Student.search(stu, sregno, n);
                    if (index==-1)
                         System.out.println("Regno does not exist!");
            }
            else if(choice==5) {
                System.out.println("Enter dept to search: ");
                sdept=in.nextLine();
                sdept=in.nextLine();
                count=Student.search(stu, sdept, n);
                if (count==0)
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