

2/02/24

WEEK-6

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Question Create a package CIE which has 2 classes - Student & intervals. The class student has numbers like USN, name, sem. The class intervals has an array that stores the internal marks scored by five courses of the current semester of the student. Create another package SEE which has the class External which is a derived class of student. This class has an array that stores the SEE marks stored by 5 courses of current semester of the student. Import the two packages in a file that declares the final marks of n students in all 5 courses.

CODES

Package CIE:
import java.util.*;
public class Student
{
 public int USN;
 public String name;
 public String sem;

 public void accept()
 {
 Scanner scan = new Scanner (System.in);
 System.out.println ("Enter USN, Name, Sem :");
 USN = scan.nextLine();
 name = scan.nextLine();
 sem = scan.nextLine();
 }
},

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```

package CIE;
import java.util.*;
public class Internals extends CIE.Student
{
    Scanner sc = new Scanner(System.in);
    public int ciemc() = newint[5];
    public void accept()
    {
        int i;
        for(i=0; i<5; i++)
        {
            System.out.println("Enter CIE marks : "+(i+1));
            ciemc[i] = sc.nextInt();
        }
    }
}
  
```

```

package SEE;
import "CIE.*";
import java.util.*;
public class Internals extends CIE.Student
{
    Scanner sc = new Scanner(System.in);
    public int seemc() = new int[5];
    public void accept()
    {
        for(i=0; i<5; i++)
    }
}
  
```

~~System.out.println("Enter SEE marks : "+(i+1));~~

~~semc[i] = sc.nextInt();~~

~~iif((i+1) > 5) cout<<"Invalid Input" << endl;~~

~~iif((i+1) < 1) cout<<"Invalid Input" << endl;~~

~~iif((i+1) > 5) cout<<"Invalid Input" << endl;~~

```

import CIE.*;
import SEE.*;

import java.util.*; // for ArrayList import

class Total {
    public static void main (String args[]) {
        int i, j, n;
        Scanner sc = new Scanner (System.in);
        int total [] = new int [5]; // i.e. 20 students
        System.out.println ("Enter no of students");
        n = sc.nextInt();
        CIE.student s [] = new CIE.student [n];
        CIE.internals ci [] = new CIE.internals [n];
        SEE.externals se [] = new SEE.externals [n];
        for (i=0; i<n; i++) {
            System.out.println ("Enter student " + (i+1) + " details");
            s[i] = new CIE.student();
            ci[i] = new CIE.internals();
            se[i] = new SEE.externals();
            s[i].accept();
            ci[i].accept();
            se[i].accept();
        }
        for (i=0; i<n; i++) {
            System.out.println ("In Details " + (i+1));
            s[i].display();
            for (j=0; j<5; j++) {
                total[j] += s[i].marks[j];
            }
        }
        for (i=0; i<5; i++) {
            System.out.println ("Total marks in subject " + (i+1) + " is " + total[i]);
        }
    }
}

```

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~~total(j) = ci(i) * ciem[j] + sem[j];~~

~~System.out.println ("Total marks " +(j+1)+ ":" + total(i));~~

~~System.out.println();~~

~~{ System.out.print("SEMESTER "); System.out.print("SUBJECT ");~~

~~: (System.out.print("SEMESTER ");~~

Output:

Enter Student Details

Enter USN, Name, Sem: 1

18M22CS054 Hamsika 3

Hamsika

3

Enter CIE marks of sub1

47

Enter CIE marks of sub2

46

Enter SEM marks of sub1

48

Enter SEM marks of sub2

47

Details :

Name : Hamsika

USN : 18M22CS054

Sem : 3

Total marks in sub1 : 95

Total marks in sub2 : 93

Final Marks of Students:

Details of Student 1

USN: 1BM22CS080

Name: Akanya

Semester: 1

CIE Marks:

90 85 92 88 95

SEE Marks:

90 85 92 88 95

ARUGUNTA HAMSIKA

1BM22CS054

Enter the number of students: 1

Enter details for CIE of student 1

USN: 1BM22CS080

Name: Akanya

Semester: 1

Enter CIE marks for 5 courses: 90 85 92 88 95

Enter details for SEE of student 1

USN: 1BM22CS080

Name: Akanya

Semester: 1

Enter SEE marks for 5 courses: 90 85 92 88 95