

USN:1BM19CS216

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Date:20/11/2020

Week 9-Lab Program 6

Create a package CIE which has two classes- Student and Internals. The class Personal has members like usn, name, sem. The class Internals has an array that stores the internal marks scored in 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 scored in five courses of the current semester of the student. Import the two packages in a file that declares the final marks of n students in all five courses.

program:

```
package CIE;
import java.util.Scanner;

public class Student
{
    String name, usn;
    int sem;
    Scanner xx = new Scanner(System.in);
    public void accept()
    {
        System.out.println("Enter Name:");
        name = xx.nextLine();
        System.out.println("Enter USN:");
        usn = xx.next();
        System.out.println("Enter Semester:");
        sem = xx.nextInt();
    }
    public void display()
    {
        System.out.println("Name :"+name);
        System.out.println("Usn :"+usn);
        System.out.println("Semester :"+sem);
    }
}
```

```
}  
}
```

```
package CIE;  
import java.util.Scanner;  
public class Internals extends CIE.Student  
{  
    public int ciem[]=new int[5];  
    Scanner xx =new Scanner (System.in);  
    public void accept()  
    {  
        for(int i=0;i<5;i++)  
        {  
            System.out.println("Enter the cie marks of subject"+(i+1)+"  
out of 50");  
            {  
                ciem[i]=xx.nextInt();  
            }  
        }  
    }  
}
```

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

```

        System.out.println("Enter the see marks of subject" + (i+1) + "
out of 100");
        {
            seem[i]=xx.nextInt();
        }
    }
}
}

```

```

import CIE.*;
import SEE.*;
import java.util.*;

class TotalMarks
{
    public static void main(String sss[])
    {
        int i,j,n;
        int total[]=new int[5];
        Scanner xx=new Scanner(System.in);
        System.out.println("Enter the number of students");
        n=xx.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();
            s[i].accept();
            ci[i]=new CIE.Internals();
            ci[i].accept();
            se[i]=new SEE.Externals();
            se[i].accept();
        }
        for(i=0;i<n;i++)
        {
            System.out.println("DETAILS OF STUDENT " + (i+1));
            s[i].display();
        }
    }
}

```

```

        for (j=0;j<5;j++)
        {
            total[j]=ci[i].ciem[j]+(se[i].seem[j]/2);
            System.out.println("Total marks in subject"+(j+1)+" is
"+total[j]);
        }
    }
}
}

```

OUTPUT:

```

C:\Users\yrlsh\Desktop\OOJLAB>java TotalMarks
Enter the number of students
2
ENTER STUDENT1 DETAILS
Enter Name:
Yashh
Enter USN:
123456
Enter Semester:
3
Enter the cie marks of subject1 out of 50
40
Enter the cie marks of subject2 out of 50
45
Enter the cie marks of subject3 out of 50
40
Enter the cie marks of subject4 out of 50
45
Enter the cie marks of subject5 out of 50
40
Enter the see marks of subject1 out of 100
45
Enter the see marks of subject2 out of 100
40
Enter the see marks of subject3 out of 100
45
Enter the see marks of subject4 out of 100
40
Enter the see marks of subject5 out of 100
45
ENTER STUDENT2 DETAILS
Enter Name:
yasminn
Enter USN:
123457
Enter Semester:

```

```
Command Prompt
Enter the cie marks of subject2 out of 50
45
Enter the cie marks of subject3 out of 50
43
Enter the cie marks of subject4 out of 50
45
Enter the cie marks of subject5 out of 50
50
Enter the see marks of subject1 out of 100
50
Enter the see marks of subject2 out of 100
45
Enter the see marks of subject3 out of 100
46
Enter the see marks of subject4 out of 100
44
Enter the see marks of subject5 out of 100
49
DETAILS OF STUDENT 1
Name :Yashh
Usn :123456
Semester :3
Total marks in subject1 is 62
Total marks in subject2 is 65
Total marks in subject3 is 62
Total marks in subject4 is 65
Total marks in subject5 is 62
DETAILS OF STUDENT 2
Name :yasminn
Usn :123457
Semester :3
Total marks in subject1 is 69
Total marks in subject2 is 67
Total marks in subject3 is 66
Total marks in subject4 is 67
Total marks in subject5 is 74
```