

23/01/24

WEEK-6.

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

public class student
{
    protected String usn = new String();
    protected String name = new String();
    protected int sem;

    public void inputStudentDetails()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the USN of student");
        usn = s.next();
        System.out.println("Enter the name of the student");
        name = s.next();
        System.out.println("Enter the sem in which student is studying");
        sem = s.nextInt();
    }

    public void displayStudentDetails()
    {
        System.out.println("USN: " + usn);
        System.out.println("Name: " + name);
        System.out.println("Sem: " + sem);
    }
}
```

Internals.java

```
package cie;
```

```
import java.util.Scanner;
public class internals extends Student
{
    protected int marks[] = new int[5];

    public void input_marks()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the marks");
        for (int i = 0; i < 5; i++)
        {
            marks[i] = s.nextInt();
        }
    }
}
```

externals.java

package see;

```
import c.ie.internals;
import java.util.Scanner;
```

```
public class externals extends internals
{
    protected int marks[];
    protected int finalmarks[];
    public externals()
    {
        marks = new int[5];
        final marks = new int[5];
    }
}
```



```
public void input_marks()
```

```
{  
    Scanner s = new Scanner(System.in);  
    for (i = 0; i < 5; i++)  
    {
```

```
        System.out.println("Subject" + (i+1) +  
                             " marks");
```

```
        mark[i] = s.nextInt();  
    }  
}
```

```
public void calculate_final_marks()
```

```
{  
    for (int i = 0; i < 5; i++)  
    {
```

```
        final_marks[i] = marks[i]/2 + super.marks[i];  
    }
```

```
public void display_final_marks()
```

```
{  
    display_student_Details();  
    for (int i = 0; i < 5; i++)  
    {
```

```
        System.out.println("Subject" + (i+1)  
                             + " final marks [i]");  
    }
```

```
}
```

```
main.java
```

```
import java.util.*;  
class main  
{
```

```
public static void main (String args[])  
{  
    int numofstudents = 1;  
    external finalmarks[] = new external  
        [numofstudents];  
  
    for (int i = 0; i < numofstudents; i++);  
  
        finalmarks[i] = new external();  
        finalmarks[i].inputstudentdetails();  
        System.out.println ("enter cie marks");  
        finalmarks[i].inputseemarks();  
    }  
  
    System.out.println ("displaying data \n");  
  
    for (int i = 0; i < numofstudents; i++)  
    {  
        finalmarks[i].calculatefinalmarks();  
        finalmarks[i].displayfinalmarks();  
    }  
}
```

Output:

Enter no

Enter the USN of student

IBM22CS208

Enter the name of the student

Pooeli T.K

Enter the sem in which student is studying

2

Enter c/o marks

Enter the marks

marks 0 = 10

marks 1 = 10

marks 2 = 10

marks 3 = 10

marks 4 = 10

Enter sec marks.

subject 1 marks 10

subject 2 marks 10

subject 3 marks 10

subject 4 marks 10

subject 5 marks 10

Displaying data

final marks[0] = 15

final marks[1] = 15

final marks[2] = 15

final marks[3] = 15

final marks[4] = 15

USN : IBM22CS208

Name : Preeti

Sem : 2

Subject 1 15

Subject 2 15

Subject 3 15

Subject 4 15

Subject 5 15

23/01/24