Date :- 17 November 2020 , Name :- Hritik Singh , USN :- 1BM19CS063.

OOJ Lab Exercises :-

Week 9 - Lab Program 6 :-

Input of the program :-

File Name :- CIE , Class name :- Student.

Student . java :-

```java
package CIE;

public class Student
{
        public String USN;
        public String name;
        public int      sem;
        public Student ()
        {

        }
    }
public Student (String USN, String name, int sem)
    {
        this . USN = USN;
        this . name = name;
        this . sem = sem;
    }
}
```

File Name :- CIE , class Name :- Internals.

Internals . java :-

Date :- 17 November 2020 , Name :- Hritik Singh. USN: 1 BM 19 CS 063.

```java
package CIE;
import java.util.Scanner;
public class Internals  extends  Student
{
        Scanner  s = new Scanner (System.in);
        public  int[] cie = new int [5];
        public  void  get()
        {
                for (int  i = 0; i < 5; i++)
                {
                        System.out.println(" Enter the CIE mark in
                                                Subject " + (i+1));

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

File name :- SEE   , Class Name :- Externals

Externals.java :-

```java
package SEE;
import java.util.Scanner;
public class Externals  extends  CIE.Student
{
        public Externals (String  usn, String  name, int  sem)
        {
                super(usn, name, sem);
        }
        Scanner  s = new Scanner (System.in);
        public int[] see = new int[5];
        public void get()
```

Date :- 17 November 2020 , Name :- Hritik Singh , USN :- 1BM19CSO

```
                    {
            for (int i = 0; i < 5 ; i ++)
                {
                    System.out.printh ("Enter the
                                        SEE mark in
                                        Subject " + (i+1)

                    See[ i ] = s.next Int();
                }
            }
        }
```

File Name :- Final Marks   , Class :- Final Marks.

Final Marks . java :-

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

class   Final Marks.
    {
        public static void main (String args[])
            {
                Scanner   s = new (Scanner (System.in):
                System.out.printh (" Enter the number of students
                int   n = s.next Int ();
                SE E.Externals   ob1[] = new SEE.Externals[n]
                CIE.Internals   ob [] = new CIE.Internals[n];
                for (int  i = 0; i < n ; i++)
                    {
                        System.out.printh (" Enter the USN, Name
                                        and Semester of
                                        student " + (i+1))
```

Date> 17 November 2020 , Name :- Hritik Singh , USN 1BM2SCS0S3.

```
                    String   u = S. next();
                    String   na = S. next();
                    int  se = S. next Int();
                    ob1[i] = new SEE. Externals (u,na,se):
                    ob1[i].get();
                    ob[i] = new  CIE .Internals();
                    ob[i].get();
            }
    for (int i=0; i<n; i++)
        {
            System.out.println (" the  Total Marks of Student"
                            + (i+1) + " are ");
            for (int j = 0; j<3; j++)
                {
                    System.out.println (" Subject" +(j+1)+ " = "
                        + ( ob[i]. cie [j] + ob1
                                [i]. see[j]));
                }
            }
        }
    }
}.
```

Output of the above program is :-

Enter the number of Students :-
1.
Enter the USN , Name and Semester of Student 1.
Bmcs Hritik S.
Enter the See mark in Subject 1.
20
Enter the SEE mark in Subject 2.
23
Enter the SEE mark in Subject 3.

Date :- 17 November 2020, Name :- Hrilik Singh, USN = 1BM19CS063

25.
Enter the SEE mark in Subject 4.
23
Enter the SEE mark in Subject 5.
25.
Enter the CIE mark in Subject 1 :-
67
Enter the CIE mark in Subject 2 :-
69
Enter the CIE mark in Subject 3 :-
80
Enter the CIE mark in Subject 4 :-
70
Enter the CIE mark in Subject 5 :-
87.
The Total Marks of Student 1 are :-
Subject 1 = 87
Subject 2 = 92.
Subject 3 = 105.
Subject 4 = 93.
Subject 5 = 112.