| 6 | IV | 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. |

PROGRM-6

Student. java →

```
package CIE;
public class Studet {
public String usn;
public String name;
public int Sem;
public Stodt (){}
    public Student (String usn, String name, int Sem)
    {
    this. usn = usn;
    this. name = name;
    this. Sem = Sem;
    }}
```

Jntesn als java →

```
package CIE;
import java.util.Scanner;
public class Internals extends Student {
Scanne in - new Scanne (System.in);
    public int[] cie = new int (5);
    public void get()
    {
    for (int i=0; i< 5; i++) {
    System.out.println("Enter CIE marks in Subject
    "+ (i+1) +" Cout of 50 of the Curent Semester: ");
    cie [i] = in. nextInt();
    }}}
```

Extend .java →

```java
package SEE;
import java.util.Scanner;
public class External extend CIE.Student {
public External (String usn, String name, int Sem)
{ super (usn, name, Sem); }
Scanner im = new Scanner (System.in);
public int[] see = new int[5];
public void get ()
{System.out.print ("\n");
for int i=0; i<5; i++) {
System.out.print ("Enter the SEE marks in Subject
" + (i+1) + "(Out of 100) of the Semester:"); }}}
```

Final marks →

```java
import CIE.*;
import SEE.*;
import java.util.*;
class final marks {
public static void main (String args[])
{ Scanner im = new Scanner (System.in);
System.out.println ("Enter the number of Students:");
int n = im.nextInt ();
SEE.External ob1[] = new SEE.External[5];
CIE.Internal ob[] = new CIE.Internals [5];
for (int i=0; i<n; i++);
}
System.out.println ("Enter the detail of Student number "+(i+1));
System.out.print ("USN:");
String usn = im.next ();
```

```
System.out.print ("Semester");
int sem = in.nextInt();
ob[i] = new CIE.Internals();
ob[i] = get();
ob1[i] = new SEE.Externals(usn, name, sem);
ob1[i] = get();  }
for (int i=0; i<n; i++) {
System.out.print(ln("STUDENT NUMBER" + (i+1));
for (int j=0; j<5; j++) {
System.out.print(ln("SUBJECT" + (j+1) + "TOTAL MARKS :"
            + (ob[i].cie[j] + ob1[i].see[j])/2));
}
}
}.
```

```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;
}
}
```

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

```
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 in = new Scanner(System.in);
public int[] see=new int[5];
public void get()
{
System.out.print("\n");
for(int i=0;i<5;i++){
System.out.print("Enter the SEE marks in subject "+(i+1)+"(out of 100) of this semester : ");
see[i]=in.nextInt();
}
}
}
```

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```java
import CIE.*;
import SEE.*;
import java.util.*;
class finalmarks{
public static void main(String args[])
{
Scanner in=new Scanner(System.in);
System.out.println("Enter the number of students:");
int n=in.nextInt();
SEE.Externals ob1[]=new SEE.Externals[5];
CIE.Internals ob[]=new CIE.Internals[5];
for(int i=0;i<n;i++)
{
System.out.println("Enter the details of student number "+(i+1));
System.out.print("USN:");
String usn=in.next();
System.out.print("NAME:");
String name=in.next();
System.out.print("SEMESTER:");
int sem=in.nextInt();
ob[i]=new CIE.Internals();
ob[i].get();
ob1[i]=new SEE.Externals(usn,name,sem);
ob1[i].get();
}
for(int i=0;i<n;i++){
System.out.println("STUDENT NUMBER "+(i+1));
for(int j=0;j<5;j++){
System.out.println("SUBJECT "+(j+1)+"TOTAL MARKS:"+(ob[i].cie[j]+ob1[i].see[j]/2));
}
}
}
}
```