program - 8.

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 semister 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 mars. of n students in all five courses

```
import CIE.*;
import SEE.*;
import java.util.*;
class total{
public static void main (string args[])
{
int i, j, n;
Scanner sc = new Scanner (system.in);
int total[] = new int[5];
System.out.println ("Enter number 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("\nEnter 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("\nDetails of student"
                    +(i+1));
s[i].display();
for(j=0; j<5;j++)
  {
    total[i]=ci[i].ciem[j]+se[i].sem[j];
system.out.println("total marks on subject"
                   +(i+1)+":"+total[j]);
}
System.out.println();
}
}
```

```
package [illegible]
import java.util.*;
public class internals esctends CIE.Student
{
scanner sc=new scanner (system.in);
public int ciem[]=new int[5];

public void accept
    int i;
    for (i=0; i<5; i++)
    {
    System.out.println ("Enter CIE marks of
subject " + (i+1));

    ciem[i] = sc.nextInt();

    }
}
}
```

```
import CIE.*;
import SEE.*;
import java.util.*;
class total
{
public static void main (string args[])
  {
   int i, j, n;
  scanner sc =new scanner (system.in);
  int total[]= new int[5];
  system.out.println ("Enter number 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("\n Enter student "+
                    (i+1)+" details");
    S[i] = new CIE.student();
    S[i].accept();
    Ci[i] = new CIE.internals();
    Ci[i].accept();
    Se[i] = new SE
```

```
package CIE;
import java.util.*;
public class student
{
    Scanner sc = new scanner (System.in)
    public streng usn, name
    public int sem;
public void accept()
{
    System.Out.println("Enter USN, Name and
                        current semester:");
    usn = sc.nextline();
    name = sc.nextline();
    sem = sc.nextInt();
}
public void display()
System.out.println("\n Students Details");
System.out.println("Name "+name);
System.out.println("USN:"+usn);
System.out.println(" semester: "+sem);
```

```
import SEE;
import CIE.*;
import java.util.*;
public class external extends CIE.student
{
    Scanner sc=new Scanner(System.in);
    public int sem[]=new int[5];
    public void accept()
    {
     for(int i=0; i<5; i++)
    {
    System.out.println("Enter SEE marks
    of subject" + (i+1));
       sem[i] = sc.nextInt();
    }
  }
}
```