Develop a Java program that prints all real solution to the quadratic equation ax^2+bx+c=0. Read in a,b,c and use the quadratic formula. If the discriminate is negative, display a message stating that there are no solutions.

000 - Lab ct (0 = = 0) 5 System. cat. paintles ("You cannot cuts o Develop a Java perogram that puints all real solutions to the quadratic equation and + bare = 0 kead in a, b, c and cen the quadratic formula impart java. util. Scammer; El (d==0) E public class akshanth & Scanner 16= new Scanner (System.in); double - (21) Scottum. Out. preisten System out pountle ("Inter the coefficient of x2 and ta = se. mont Tat (2: 14") without two me System, out point in ("Ento the wefficent of 20 which is b: "); ent b = sc. next Int (); System. Out preint la C" Enter the constant (: ent c = sc. next Int(); System. Out puintly ("thurspore the equation is "+a+"x2"+6+" x"+c):

if (a = = 0) { Recognom -1 System. out perinten ("You cannot entr O as the hunter or date; Khange sisted puint all san relations to the quadratic agration and tenden d=(6*6-4*a*e)iss une lone 3,6,0 is donal if (a!=0) compact java, cetel, scammer; & (d==0) { Public class arthurth. E System. out puintln ("thurspen the scoots are + 214 and 12 double P; else if (dro) & 24 = 6-6+ Math. squt (6 +6-4+ a+ 6) / (2+a) 9ez (-6-Math. 19nt (6*6-4*a*e)) / (2*a); Septem. out. puintlin ("thousand the roots are frit and "tea"; which double see: else & Sepation rout, perintly ((Trate) 2) Lety ican of 1/2 q = Math. Agut (Math. abs(d)) /(2+a); System. out. pewintln ("the first sweet is "fpt" +i" + q); System out praintly (" the second wort is "+p+"=1"+9); int b = de next Trut (); Squeen. Out print la (" Fate the constant C: in c: acres total;

```
C:\Users\BMSCECSEIL74\Desktop\1BM21CSØ14>java akshanth
enter the coefficient of x2 which is a :
enter the coefficient of x which is b:
enter the constant c:
therefore the equation is 1x21x1
the first root is0.0+i0.8660254037844386
the second root is0.0-i0.8660254037844386
G:\Users\BMSCECSEIL74\Desktop\1BM21CSØ14>java akshanth
enter the coefficient of x2 which is a :
enter the coefficient of x which is b:
enter the constant c:
therefore the equation is 0x21x1
you cannot enter 0 as the value of a
C:\Users\BMSCECSEIL74\Desktop\1BM21CSØ14>java akshath
Error: Could not find or load main class akshath
G:\Users\BMSCECSEIL74\Desktop\1BM21CSØ14>java akshanth
enter the coefficient of x2 which is a :
enter the coefficient of x which is b:
enter the constant c:
therefore the equation is 1 \times 23 \times 1 therefore the roots are -0.3819660112501051 and -2.618033988749895
G:\Users\BMSCECSEIL74\Desktop\1BM21CSØ14>java akshanth
enter the coefficient of x2 which is a :
enter the coefficient of x which is b:
enter the constant c:
therefore the equation is 1\times24\times1 therefore the roots are -0.2679491924311228 and -3.732050807568877
C:\Users\BMSCECSEIL74\Desktop\1BM21CSØ14>java akshanth
enter the coefficient of x2 which is a :
enter the coefficient of x which is b:
enter the constant c:
therefore the equation is 1x22x1
therefore the roots are–1.0and–1.0
C:\Users\BMSCECSEIL74\Desktop\1BM21CS014>
```

Program 2 output Develop a java program to create a class student with members usn,name,an array credits and marks .Include methods to accept and display details and a method to calculate SGPA of Student

```
Develop a Java puryuam to curate a class
   Student cuth members un, name, an away weders
   and an away marks . Include methods to
   accept and deplay details and a method
 import juna will Scanning morally - ( ) morally
  class student ( : () but town son = (1) trabages . ( )
   & String name to + (1) decore to + offer
    Stuing von;
     int marky CJ = new int (3.3) of Joseph 10 . 10 = 3
    int oudit [] = new out [3] (+) ( mp) = sage
ont totality (2 7" who is is make it to by apple ") 9:00%
  £ cnt t=0, i;
    for (1:20; 1:28; 1:4)
         b=t+oudit[i];
      suturn t;
 clan csoly {
  spublic static void main (Stringary (3)
E S.O.P ("Enter the Student name, usn ")
   enti, ti
    float 19pa =0;
 Scanner Sc = new Scanner (Systemen);
  Student 1 = new sterdent ();
   Strame = oc. next line (1)
   Dr. cum = sc-next ane (1)
  S-O.P ("mark and oudit of each subject are hi");
```

from (i=0) (23:14)

E1. marks (i) = 100 marks (i) 100)

Che

SI. marks (i) = (51. marks (i) 110)

Che

SI. wedit (i) = sc. next Int() = 3 trades (i) 100

Agpa = 19 pa + 51. marks (i) * 51. wedit (i); g

The paints

t = 11. bet credito (5; 2) trades = 12 trades (i)

Sio. P (" Sypa of" + 51. marks io in "p 19 paints to in "p 19 paints (i)

(13 trades + d = d)

OUTPUT

```
C:\Users\AKSHANTH\OneDrive\Desktop>cd C:\Users\AKSHANTH\OneDrive\Desktop\java
C:\Users\AKSHANTH\OneDrive\Desktop\java>javac sgpa.java
C:\Users\AKSHANTH\OneDrive\Desktop\java>java cs014
enter the student name,usn

Akshanth
1BM21CS014
marks and credit of each subject are

90 3
89 2
100 1
sgpa ofAkshanthis
9.666667

C:\Users\AKSHANTH\OneDrive\Desktop\java>
```

Program 3 Create a class book which contains four members name, author, price, numofpages. Include a constructor to set the values for the members. Include methods to set and get the value of objects. Include a tostring() method that could display the complete details of the book. Develop a java program to create n book objects

England jana corde Stadout; impact jackon white scanners, and I desire the material Classa Book "Endhus" : "ollusa" some double perice; Steeling name; num pages to; 10000 18 name = "some chook"; author = "a". Book lint num pages, double puice, String rams, Stringaution) this name = (name + 612) range of cours =

void get-data() phinksole was love from the day System out printer ("Book detable Irrames of "+ named" | nauthor: "+ author!" \ norumber of pages: "+ num-pages" In pulce: "+ puice); chounts much public Stuing to String () Ruley name; Straing author setwen (" Book defails | nname: +authors" | number of pages: "+ num pages +" Input "+ puice + dorka --- 1 n"); 3 3 = 35009 carthon = " Come book"; class lab 2 & runn pages, dauch pulce Etwing runn; July auch public static void main (Strung CJ args) , but Book 61 = new Book (); (white Scanner 1 = new Scanner (Systemen); was diet System out pountle (" Enter the rame of the book: "). String name = or neather frame this state and bior S.O.P ("Entry the authors name: "); Stuing author = a rentline (); & O.P (" Ents the number of pages in the book: int num pages = s. newtint (); S.O.P (" Ents the perice of the book": " double perice = s. nont Double (); System out puintly ();

```
b1. set_data (num-pages, puice, name, author);

Book 62 = new Book (20, 87.65, "deception point," "dan trous"),

b1. get_data();

b2. get_data();

System. out. puintln (b1).

System. out. puintln (62).

s.clox();
```

C:\Users\bmsce\Desktop\cs014>java lab_2 eneter the name of the book: string eneter the number of the book: 3thing eneter the number of pages in the book: 234 eneter the price of the book: 345 Book details name: string author: gfg nmber of pages: 234 price: 345.0 Book details name: deception point author: dan brown nmber of pages: 20 price: 87.65 Book details name: string author: gfg nmber of pages: 234 price: 345.0 Book details name: deception point author: dan brown nmber of pages: 20 price: 87.65

4) Develop a Java program to create an abstract class named Shapethat contains two integers and an empty method named printArea(). Providethree classes named Rectangle, Triangle and Circle such that each one of theclasses extends the class Shape. Each one of the classes contain only themethod printArea() that prints the area of the given shape.

A. Develop a Java purgram to creat an abstract class named shape that contains, two integers and an empty nethod named puint and 1). Parouide there classes married Rectangle, Testangle and livele such that each one of the class extends the class schape. Fach and of the classes contain only the nuthod point theya! that print the ama of the given shope () sedo ! import java, util, "; abstract class a 6 { double a,y; : Hood to other it is noted a (double i, double j) { Enter the name of the book: 3 class evet extends a { suct (clouble i, double i) & double area () { Book details class tui extendo a { tri (double i doubli) { or se seport } Louble areal? {

class cir entendo a { iir (double i) { Spece to disput (6, 6) ; bond 110 mil double arual) { notwin 3.14 Jax 4 1 Jones think was it Enter the seasons of winds. class With execute & public static void main (Stuing angles) { Scanner or 2 new Scanner (Septim. in); System out puintln! Enter the lingth and beworth of metengli!) double 1 = sc. nextInt (); double b = oc next Int (); System. Out puintles ("Enter the height and base of the tavangle:"] double h = sc. nextInt(). double ba = 12. next Tut 1); System, out paintly ("Ents the readies of circle:"); double na = oc. nextInt(): suct a = new suct (1,6); tori t = new teri (h, ba)? cir c = new cir (Ma); System. out printle ("Arua of ruetangle is" + t. arua (1); System. out printle ("Arua of triangle is" + t. arua ()); System. out. puiroln ("Aura" of circle is "+ c. acua ());

```
Command Prompt

    Area of rectangle

2. Area of triangle
3.Area of circle
Enter your choice
Enter length and breadth:
20 30
Area of rectangle= 600.0
C:\Users\bmsce\Desktop\1BM21CS064>java abstarea

    Area of rectangle

2. Area of triangle
3.Area of circle
Enter your choice
Enter base and height:
20 30
Area of triangle= 300.0
C:\Users\bmsce\Desktop\1BM21CS064>java abstarea

    Area of rectangle

Area of triangle
3.Area of circle
Enter your choice
Enter radius:
20
Area of circle= 1256.8
C:\Users\bmsce\Desktop\1BM21CS064>javac account.java
```

5. Develop a Java program to create a class Bank that maintains two kinds of account for its customers, one called a savings account and the other current account. The savings account provides compound interest and withdrawal facilities but no cheque book facility. The current account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance and if the balance falls below this level, a service charge is imposed. Create a class Account that stores customer name, account number and type of account. From this derive the classes Cur-acct and Sav-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks: Week 5 1BM21CS044 a) Accept deposit from customer and update the balance. b) Display the balance. c) Compute and deposit interest d) Permit withdrawal and update the balance Check for the minimum balance, impose penalty if necessary and update the balance

imposit java. Wil. Scanner; (145,000 15384 import java. long. Math stocke out! class account Stuing name = new Stuing (1; int accrus; double bal; Scanner 5 - new Scammer (System. In) d. nextboalde III Void set () System. Out puintle l'Enter customa name name: s, netlinell; System. Out presiden ("Enter "training s account number"); aceno = s. nextInt(); System.out. puerth ("Enter balance amound"); is of bal = s. neptDouble(); 2.0.P ("Enter state of interes") Louble 11: 8. Mythouble 1); void display() 5.0 P. Cautonion Manne: "frame) 5.0. P ("Your account numbr: +account); out to dinentitually account () {} class sayacet extends account all all all all squaret () S.O.P ["Chique Facility not available"]. balance after explating is "that!

void wd1) void object!) 5.0.P (E outch; double ant; if Con= S.O.P ("Pours 1 toolyposit") 5. O.P ch = S. next Tod (); docuble \$ (cho=1) if [wd S.O.P ("Entir amount to be dyposited"). { S.O. + ant = S. nextDouble (1) else bal = ba S.O.P S. O. P. ("Invalid Inpid");" strong too. else 3 System. out. presiden C. Enter balance amound (1 12) botal bal = J. runt Bublel); a S. O. P ("Enter rate of intour"); class double n = 8. nix+Double 1): SO.P ("Enter member of time intourt applied per time puriod"): ent n = s. nextIntl); S.O.P ("Enter number of time periods"); ent t = s.nextInt(); double x = (1+(4/100)); double ci -balos * Math. pow(xn) 5, / wower. (1) 5.0.P ["Intoust amount = "tei" In Balance amount without conting t S. C. P ["Chaque Facility not availably"] 9.0.2 5.0.P ("Available balance after capolating is "+bal);

void wd1) 8.0.P ("Psus 1 to withdraw amond") int ch = s. next Ind 1); if (ch==1) Moid and () { 5. 0. P ("Enter the amount to be withdrawn"); double endraw = S. next Double (); if (wdow> tal) { S. D. F ("Balance is arm than withdrawl and") better; } Vocal clse South easthobaum: "): bal = bal - wobraw: S.O.P ("Available Balance: "+ball; 3 ellis. USC S.O.P ("Invalled input") probes - lat = lat 5.0. P ("Hvailable balance: " that): ? class award extends according bolomer 9.08 Scannor 1 = new Scannor (System. in); 1 > lot) to (weacit () 5:0.9 (" Belone below marionen amond in 3 S.O.P ("Cheque facility available"). void deposit () Lal = Sal - 50; S.O.P ("Your available balance: "this spends 5.6.P (" Press 1 to deposit"); درد /ch = s. nextInot(); if (ch==1) 1); public class labs S.O.P ("Enter amount to be deposited"). ant = 0. next Double () () xx growth) invoy bal = balt amt;

5.0.P (Invalid Input) ent ch; 5.0.0 Void woll) 5.0. P. L' Prus 1 to withdraw amons", ch = s. nex Switch lu ent ch = s. next Int (); (waranostal) cose 1: port colone is limited 17 (oh == 1) Savacet 5.0.P (Enter the amount st. set 6 11. dis1 withobeaun: "); bal-wolnaw. double reduce : s. nextDouble () SI. dep 11, in bal = bal- wobiais mynis lower ["] 9.0.3 11. wo S.O.P ("Available balance;"+bal); } buak. Care 2: close curao S.O.P ["Invaled exparty; donotes toomes and CI Scanner 1 = new Scanner (System (0001) July for C1. (weacit () CI 5.0.8 (" Belance below minimum amond, In A genalty of SOB; tras been woodild). recol depart () bal = bal - 50; 5.0. P ("bur quailable balance: "+ bal ? C" Peyers 1 to deposit");

ent ch; 5.0.0 Enter your account type:

1. Sawings account to 7. (wound account"); Ch = S. next Jut (); 8. Eurous F. Ecconst Switch (un) case 1: Chaque become not available Squacet SI = new squaed 1): not worthers 11. set (); 12 March 11. display (); Into spranty account evening 11. deport 1). 8021 84,58 7 11. in(); Fit Salance comonit 11. wol 11: 34,00000 benak. Care 2: Customer Manne: Akstronoto conact C1 = new coract 1); C1, Not (); You at balance: 34,00000.0 C1, display C1; Peux 1 to olipsoit C1. wd1); bruak. default ! bit System, exit to); twoma wit the 6,000000 Fite the grate of intrust Enter the number of time interes apple tion period tute number of time prices

```
Command Prompt
C:\Users\bmsce\Desktop\1BM21CS064>java account
1.Savings account
2.Current account
Enter your name
gagan
Enter the balance amount
10000
Name : gagan
Cheque service not available
Do you want to deposit(1 for yes ,2 for no)
Enter the amount to be deposited
20000
Amount in bank insufficient
Current balance : 10000.0
Enter the rate of interest
Enter the number of times interest applied per time period
Enter the time elapsed
Compound interest is 1.6E17
Enter the amount to be withdrawn
```

1222

Withdrawn : 1222.0 Current balance : 8778.0

default: System.out.println("Invalid choice");

Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called "Father" and derived class called "Son" which extends the base class. In Father class, implement a constructor which takes the age and

throws the exception WrongAge() when the input age=father's age.

Then Wrengrige() When the input age ha	tirer o age.
LAB-4 WENDER'S & SO/10/22	
that dimanstratio leave	class Son oxtunds
of exceptions in intruitance true. Court of	Son lind x, only
base class valled class. In Father class	supre lx.
which extends the hast which take the age implement a construction which take the age	it (son ag
implement a constitution whoog tyel) when the and Howard the exception whoog tyel) when the	thuow
injust is again Loth Lither and ron's	, 1
age and thuous on exception if non age is >= futus	3
ogs.	clay to be f
to also and	public sta
Importjava. Util. Scanner;	try f Sca
class wang the Exception extends Exception {	System.
public Stuing to Stuing () {	ent
section ("Entered age is nighting").	ent
	Son
May do French and a for	Septem. a
class Age Freehan extends for ception &	Non is
public Stuing tostuing () (1 Catch
suturn ("Hy anticod of the son is quater than	Synta
that of the father");	Catch
Clan father {	- sug
int fathorage;	Catch
Father Linth throws Wargage Exceptions of	
father-age = x;	J
4 (father-age x 0) {	3
if (father-age x0) { 3 thurs new huang Age Exception ();	3

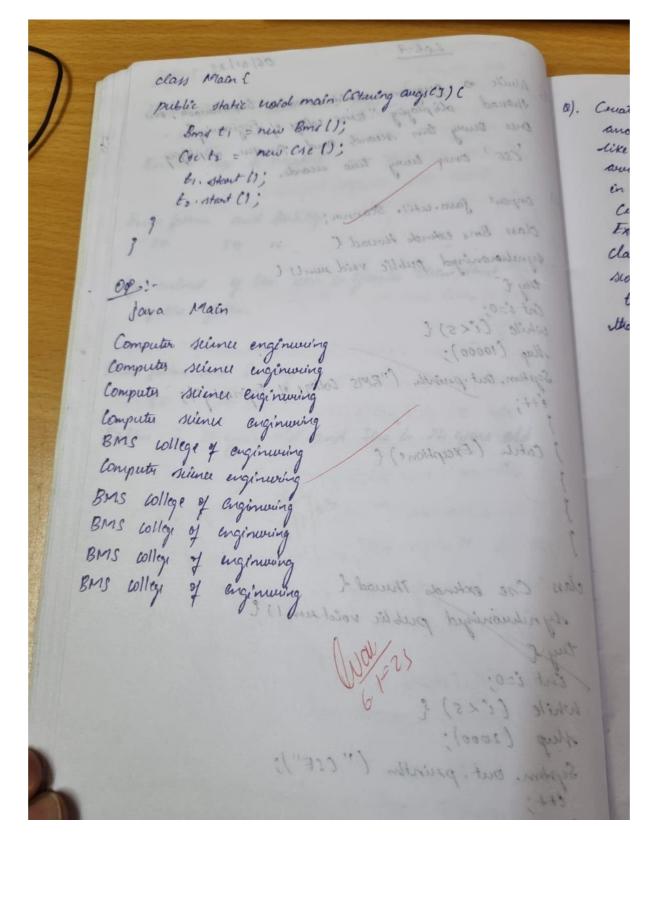
```
class son extends Father &
                   ent son-age;
               Son ( and x, only) twoous the Exception wounding Exception {
                    super (x);
                   don - age = 4;
                  if (son age 20) &
                     throw new hirongy getruption ():
athes
            Class tab $ & and damp of no will be warm of
                public state void main (String[] args)
                  truy {
                      Scanner 1 = new Scanner (Sydem.in).
                System. out. puintly ("Enter fathor's and son's ag");
                   int A = S. next Int ();
                 ent y = s.next Int ();
                  Son 10 = new son (2, y);
               System out println (" Father is y, of years old and
              son is 1. d grans old, so father age, so son-ag).
            I catch (whong Age Exception wa) {
                System. out. pecintles (eva);
              Catch (Age Exception a) {
                   System. out. puintles (a);
              Catch (Exception e) {
                   System. Out · pecintle ("Entre valid values");
```

Enter fathers and son agis Q). Write Entered age is negative thouad new winoughfreepion ()! once 'CSE Enter fathers and Son's age Empor Age entered of the son is quater than that 20 Clan Tynes try int Scanner d= new Scanner (Syphin. In). Entre father and Son's age wind of Alling too. may & Whi Muy Sys ++ } } Father is 50 years old and son is 24 years old. clas Sylum. out private lever). Whele (Exceptione) &

Administrator: Command Prompt Microsoft Windows [Version 10.0.22000.1219] (c) Microsoft Corporation. All rights reserved. C:\WINDOWS\system32>cd C:\Users\hghat\Documents C:\Users\hghat\Documents>set path=C:\Program Files\Java\jdk-19\bin C:\Users\hghat\Documents>javac fs.java C:\Users\hghat\Documents>java main Enter the fathers age: Age cannnot be negative C:\Users\hghat\Documents>java main Enter the fathers age: 34 Enter the sons age: 22 C:\Users\hghat\Documents>java main Enter the fathers age: Enter the sons age: 90 Father's age cannot be less than son's age C:\Users\hghat\Documents>java main Enter the fathers age: 23 Enter the sons age: Age cannot be negative C:\Users\hghat\Documents>_ 24°C Ø Search Partly cloudy

Write a program which creates two threads, one thread displaying "BMS College of Engineering" once every ten seconds and another displaying "CSE" once every two seconds.

```
06/01/23
               Lab-7
  Q). Weith a preogram withich areater two thereads, one
              displaying "BMS college of Engineering"
      Once carvey tens seconds and anone displaying
       (SE' once tury
     Emport fava. util. Scannoi;
    Class Bons extends through {
    synchronized public void sunt!
    tany &
    ent i=0:
    while (i'x 5) {
    Mup (10000);
   System. Out puintly ("BMS College of Engineering");
    Catch (Exceptione) {
class Cse extends Theread &
  synchronized public void um 1) {
  ent i=0;
while (i'x5) f
 Mug (2000);
 System, out . println ("CSE");
  et+;
   Catch (Exceptione) {
```



```
Command Prompt
Microsoft Windows [Version 10.0.17763.1577]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1BM21CS064
C:\Users\bmsce\Desktop\1BM21CS064>set path="C:\Program Files\Java\jdk1.8.0_201\bin"
C:\Users\bmsce\Desktop\1BM21CS064>javac threading.java
C:\Users\bmsce\Desktop\1BM21CS064>java threading
BMS College of Enginnering
CSE
CSE
CSE
CSE
CSE
BMS College of Enginnering
CSE
CSE
CSE
CSE
CSE
C:\Users\bmsce\Desktop\1BM21CS064>_
```

Cíeate a package CIE which has two classes- Student and Inteínals- a subclass of Student. I'he class Student has membeís like usn, name, sem. I'he class inteínals has an aííay that stoíes the inteínal maíks scoíed in five couíses of the cuííent semesteí of the student. Cíeate anotheí package SEE which has the class Exteínal which is a deíived class of Inteínals. I'his class has an aííay that stoíes the SEE maíks scoíed in five couíses of the cuííent semesteí of the student. Impoít the two packages in a file that declaíes the final maíksof n students in all five couíses.

Clue:

All classes except the class with main method need to be public.

Cíeate 4 files -

File 1 -> package CIE with class Student

File 2 -> package CIE with class Inteínals

File 3 -> package SEE with class Externals

File 4-> Default package - class with main methodMethod 1:

Cíeate two packages - CIE and SEE

Keep all .java files in the íoot. Compile Student.java, shift class file to CIE foldeí, then compile Inteínals.java, shift .class to CIE, Compile Exteínals.java and shift class file in SEE foldeí. Compile and execute the main class.

Use impoits appiopiiately.

```
Packages
        impost CDE. ";
        impost SEE *;
       impart java. vtil. ";
     class total <
        Psum Cstoring angs[]) <
      Scanner Sc= new Scanner (System. in);
int total [] = new int [5];
       S.O.P ("Enter number of students:");
         Mª Scinext Int ()'
    CIB. student 55[] = new CIE, student [N)
    CRE. internals GI[] = new CIE, internals (nd);
    SEB, externals seld = new SEE, externals [n])
     fon (:=0',1<n',1++)
    < S.O.P ("In Enten student"+ (i+1)+"details");
         s [i] = new CIB. Student();
          SGJ : accept();
        Citil = new CIE. internals ();
          ci [i]. accept ();
        Setilanew SEE, extends (1)
            Selil-accepted;
```

```
for Citojien; itt)
 < 5.0.P ("In Debails of stodent" + (2HJ))
              Stil. display ()',
    for ( ; =0 ) (5; j++)
       total [j] = ci[i].ciem[j] + se[i].seem[j]',

S.O.P ("Total marks in subject " + Cj+1)+";

"+ total[j])'
       S.O.P();
CIE file
             internals java
Padrage CIE;
   public class internals extends CIE student <
       Scanner Sc= new Scanner (System, in)
 public interem [] = new int (s)
   Public void accepted
    (S.O.P ("Enter CIE marks of subject"+(i+1));
         Ciem [ ] = Scinext Int();
```

```
student java
   padeage of CIE;
    impost java utid. "
     public dass student (
          Scanner SC= new Scanner (System in);
      public Storing usningune:
         public int sem's
      Public void accept ()
S.O.P ("Enter us", Name and cuspient sements")
        USn = Sc. next Line ()]
        name = sc. nextline ()'
        Som = sc.next Int())
    public void display ()
    L S.O. P ("InStudent Details");
        Sto. P ("Name; "+ rame))
        SLOP (" USN;" + USn);
        S.O.P ("Semester" " + sem)
SEE HILE
      extendals, jewa
Padrage Skt;
 imposit CIE. 4;
 impoint java. ofid. 4;
public class externals extends O.E. Student <
     Scanner Sc= new Scanner (System. 12)
public int Seem [] = new int [5]0
```

```
public void except()

{ fon Cint i=0; i<5; i++)

</pre>

S.o.P ("Enter SEE meanles of subject" + (i H));

Scentil=sc. nextInt();
```

```
:\Users\bmsce\Desktop\1BM21CS064>
:\Users\bmsce\Desktop\1BM21CS064>javac packages.java
 C:\Users\bmsce\Desktop\1BM21CS064>java total
Enter number of students:
Enter student 1 details
Enter USN, Name and Current semester:
1bm21cs064
gagandep
 Enter CIE marks of subject 1
Enter CIE marks of subject 2
 Enter CIE marks of subject 3
Enter CIE marks of subject 4
Enter CIE marks of subject 5
 Enter SEE marks of subject 1
 Enter SEE marks of subject 2
Enter SEE marks of subject 3
Enter SEE marks of subject 4
Enter SEE marks of subject 5
Details of student 1
Student Details
Name: gagandep
USN: 1bm21cs064
Semester: 3
Semester: 3
Total marks in subject 1: 123
Total marks in subject 2: 119
Total marks in subject 3: 102
Total marks in subject 4: 106
Total marks in subject 5: 137
C:\Users\bmsce\Desktop\1BM21CS064>
```