G. Declop a just program that private all real solutions to the quadratic equation ax + bx + c=0 Read in e, bl and use the quadratic formula If the directionized be use in regularly display a message stating that there are no real solutions. infect jour utilishermon; public static verd main (strong angres [1] angr) { danner thomas = seamer = new obtainer (dystemin); deptement bouth ("anter ceff of a:"); deather a fountly ("anter ceff of b:"); deather a fountly ("anter ceff of c:"); deather and privation ("anterceff of c:"); deather and privation ("anterceff of c:"); deather (and privation and back [1); deather out privation ("anterceff of c:"); deather out from the "and "and " + noot 2); dystem out privation ("The Equation has two mesh solution:"+ past + " and " + noot 2); deather noot = -b / () * a); deather noot from the from the ("The Equation has are real solutions") 3 also { dystem out from the from the "The Equation has no real solutions" 3 also { dystem out from the "The Equation has no real solutions" 3 also { dystem out from the "The Equation has no real solutions" 3 also { dystem out from the "The Equation has no real solutions" 3 also { dystem out from the "The Equation has no real solutions"		1.
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Develop a jana program to create a class student with markers usn, name, an array credite and an array marks. Include methods to accept and display litalis and a method to calculate scarner; class student? String USN; othing name; double [I] credit; double [I] marks; intrammulajets; STUGENT (int Sum obligita) [their num abliget = numobligita; (redits = new and [num subjet]; marks = new double [num subjet]; public void accept Student Italish () { Seamour n = new Seamon (Systemin); System out printler ("Enter your USN"); USN = SC. next final; for (int i=0; i < num subjects; i++) { System out pointler ("Inter your name"); results [i] = × next Dauble ();	2.	
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System. out. println ("Enter your USN"); USN = SC. nextline pontine (); System out. pointln ("Inter your name"); rane = SC. next fine(); for (int i=0; i < num dubjects; i++) { let := out bointln ("Inter oresit for subject"+(i+1)+":");		pulle voia acept swamp states (let tensis)
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dystem out pointly ("Inter your name"); name = S(. next/ine(); for (int i=0; i < num dulgects; i++) { letin out bountly ("Inter credit for subject"+(i+1)+":");		System out printen (triber your USN)
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for (int i=0; i < num duljects; i++) { let := out bointly (" Enter credit for subject"+(i+1)+":");		dustan out bountly (" Inter your name ");
for (int i=0; i < num subjects; i++) { leting out bointly ("Enter credits for subject"+(i+1)+":");		64 - 14:0:
for (int i=0; i < num subjects; i++) { System.out.pointln (" Enter credits for subject"+(i+1)+":"); Credits [i] = & nent Double();		
for (int i=0; 1 < num dulgeds; ("i); System. out. pointln ("Enter credits for subject"+(i+1) +":"); (redits [i] = 5c. nent Double();		3 (41) 4 (41)
System. out-pointln ("Enter credit for subject ("Credits [i] = & nent Double ();		for (int 1=0; 1 < num subjects; " 1 " 1 " + (1+1) +":");
credits [i] = Sc. nent Dable ();		Justem out pointly (" Enter oredity for subject
Creams LIS		1 to I = 8. next Double ();
		CHAWLET 3

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4
               Lystem out printly (" Enter marks for subject"+ (1+1)+
                   marks [i] = Sc. rext Daille ();
            pullic void display Details () &
             Lystem out frintly ("In Student details").
             dystem out pointly ("USN: "+ USN);
             System out printle ("Name: "+ Name);
           System - out printly ("Subjects Details:");
          for (int i=0; i < rumshljects; i++) {
         dystem out pointln ("Subject " + (1+1) + " : (redit= "+ credits(i) + marks = " + marks[i]);
       3
       3
printe double get Gradelointe (double marks ) ?
  4 (marks >=90) return 10;
  else ef (marks >= 80) return 9;
  che if (morky >= 70) gretion 8+; Home
elief (marks >=50)
                                                                                             return 6
 She if (morks > =40) retion 5 ;
                               return 0;
 else
                                                              I the water than the second
                                                          ( original of the contract of
```

public void colculate SGPA () { double total-credity = 0; double total grade = 0; for (int 1=0; i < num subject ; 1+4) & double gradepoint (marks [i]); total Gradhints + = Genthamt + Godits [1]; double SGPA = total Graphients / total orelite; Lysten out printly ("SGPR:"+ SgPa); public class Stubent Main & the pulles static void main (string wigs[]) 5 A 1 1 1 2 2 Students Student stud = new student (3); student accept details (); student . Display Detals (); Student Calculate SGRA();

vayut -	6
Enter USN . 11	III I
Exter Name:	whank Roj
Enter number	10M 23(532)
Castata lan	
Marks , 20	of subjects: 3 which subject 1:2
Marks :00	
Credita las	and - third have = + dearly a site.
Marks 90	Gest 3:4 100 Advances to the state
SN:18M 23/	((2) e 4 1
lame: eh.01	S325 letel & market - market
ubject 1	Cresita: 2 Marks: 70
Prest 2 -	Credits: 2 Marks: 70
8:+ 3-	redit : 3 Marks: 30
MEN ST	Matt
opp : 2 - G	Marks: 90
2PA: 8.22	Metits: 4 Marks: 90
nPA: 8.22	7040.40
nPA: 8.22	7040.40
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oPA: 8.22	I dide was it to the day.
nPA: 8.22	7040.40
nPA: 8.22	I dide was it to the day.
nPA: 8.22	I dide was it to the day.
nPA: 8.22	I dide was it to the day.
nPA: 8.22	I dide was it to the day.
nPA: 8.22	I dide was it to the day.

a Create class Book which contains four members = name, author, frame, numpages Include a constructor to set the values for the members. Include methods to set and get details of the objects. Include a string () method that could dishlay the complete details of the Book. Develop a program to create in look algests. Olm Book & String name, author; double forme; list mem pages; (1+ 5+ me) = 10+ Book (Itering name, string outhor, flood house, int hum-pager) { this name = name; this author = author; the this point = point; this num- pager = num pager; pullic void set Dataily () { designer se = new Seanner (System in); dystem out point ("Enter the name of the book :); System out point ln ("enter name of the suthor:") suthor = sc. rest Line (); System out pointln ("Enter price of the look :"); price = n. nentfloot (); Lystem out println (" Enter the number of pages: "); num of hoger = N. nort Line ();

.01	1 (19 n. 1: "+ name);	0.	De
public roid get Date	In ("Nome of Book: "+ name); In ("Nome of Ruther: "+ author); In ("Nome of Ruther: "+ price); In ("Home Crice: "+ price);		7/
D. 92 Villa	1 1 10000		1
Lysten Gest front	and "Atom Cerel " + num have		n
Sylva Och Paris	en ("Nome of Bather: + price); en ("Afaire Cerice: "+ price); en ("Number of Cayer: "+ num pages,	5	10
dystan our gran	132.50 112		2
pullie clan Lat &	5 4 · . [7 aras.) 5		2
fully states	Loid main (String [] srys) {		
Scanner SC=	wid man (Lysten in); new dearmen (Lysten in);	77	j
Listen But to	rently (" enter the number of books	Y	1
int n = X	nenttent ();		-62
pook [7 lo	is = new look [n)		
	C C Market Market Control		
for (int i=	0; isn ; i++)2		
V-69S	n Sil Not tollow .	- 4	10
ages first i	n. i < n 1/++) 1		1
boo	B. E. O. get details ();		
3			4
3	falley word ant Bitailey 1) T		
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	be of be 1 " A to the see		
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Name of the Author	: Roll Ochl		hrk
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A SAN THE PROPERTY OF THE PARTY			
Name of the Book : 11	while and the Chorolate factory		
Nome of Buther : Rose	10.10		
Bru: 450	0 5050		
Number of Pages: 2			
	80	3.5	

from many Levelop & sma Jorogeram to create an olitract clan named shape that contains two integers and an emply mothed named posint Area (). Provide there classes named Rectangle, triangle and wich such that each one of the class extends class shape tack one of the Classes contain only the method print Areal) that points area of the given shape import java util danner; Coshs") alstrad class others ? int dim 1, dim 2.5 pullic static word shape (int som 1, sim 2) 2 this dim 1 = dim 1; this din 2 = din 2; statement double point Area (); class rectangle anterids shape ? public Rectangle (dim 1, dim 2) } super (dim 1, dim 2); void point Book () 5 double ones - dim 1 dim 2 to dystem out fromt pointly (orla); Estiery Class triangle entends Shape? public triangle (dm 1, dim 2) & super (dim 1 odim 2); roid print Area ? double area = 05 " dim 1 " dim 2; dystem out-friendly (voica);

	115	9
	chape	
.1	class coule entends shape &	L
1	class coule entends strape fullie welle (and dim 1) super (dim 1, dim 2);	E
	3	6
	void Area () { = moth. PI * dim 1 * dim 1;	
3	double area = proth. PI * dim 1 * dim 1;	
	double area = proth. PI dom! dam!	
- /	3	1.
-		though a
	public class Shape Area &	
	1 11. At the word Western Marine (Serving () aran!	
N.	int chaire;	
	M. panner nent Int ();	
	surtch (choice) &	
	Core 1: D System out foundby ("Enter Rostangle of Rect")	
	int a = next Int();	
- 1	int b = S(-nextInt();	
	Rostongle & = new Rectangle (a, b)	
	J. print Area ();	
	lreak;	
	Case 2: System: oct. porentla ("Trigngle")	
	ent bose = St. next Int();	
	ind height = SC next Int();	
	Triangle t = new triangle (Ilone, weight)	
	t point Area ();	
	break;	
- 3		
1 7	and the state of t	
-	int redin = 8. nent Ind ();	
-	Cloule (= new Circle (Hadius)	
	C. printarea	
-	brienk;	
3		1

Output-Lebert a shape 1. Ractangle 2. Torringle 3 circle
Einter length of Rectangle :12
Enter length of Rectangle :12
Brea : 132 that the man is the first with the second Every their five without my while the course the war and not placed to be to be the ecto) and the course and are at ght! to every time a recorded they of the west of

5.	12
a	Donald a Same horassam to coaste a class of a
-	Develop a Java perogram to create a class lank that mointain two finds of account, one salled savings and
	the other suprest scenation. The savings and
	1 it + a 1 HI I I I I to provide
	Society . The cornect account braville of it is cheque
	facility. The corent account provider facilities cheque lost
	Greats a Son secount that stores customername, acc. numbers
	and type of account. From this derine classes curract,
	socione - not to real the and the
	Enclude the recovery at the
	Enclude the necessary methods in order to whilve the following
(b) s	Display the bolance
(()	empute the deposit interest
(d) Pos	Transt with the man of the transfer of the tra
	mut with or and update balance.
i	Last in +1 0
1	port jana util Sunner;
1	on Account ?
	String systemer Name secon + N. A
	String sustamer Name, account Number;
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	String sustamer Name, account Number; double balance; String secount Type; public secount (String Customer Name, String second,
	String sustamer Name, account Number; double balance; String secount Type; public secount (String Customer Name, String acc No; String Account Type, double balance) this customer Name of the
	String switemer Name, account Number; double believe; Attring secount Type; public Account (String Customer Name, String acc No; String Account Type, double bolance) this customer Name = Customer Name.
	String switchmer Name, account Number; double Islame; Attring swant Type; public Account (String Customer Name, String sec No; Attring Account Type, double Islame) this customer Name = Customer Name; this occount Number = account Number; this suspent Type - account Number;
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	String switemer Name, account Number; double believe; Attring secount Type; public Account (String Customer Name, String acc No; String Account Type, double bolance) this customer Name = Customer Name.

1000 that frubble void deposit (double amount) & suis Hot ongest to 18 heave belonce + = amount ; heare book Lystem out printly ("Deposet Lucienful"); } the S number System Out printly (" Twoled Deposit"); Qurent hulle void display Belina () & Merring Lystem out fourth (" Account Balonce: " + balonce); pullic strate void withbour (double amount); class correct extends Account ? pointe static find double Minimum Calance- 10000; pointe statu final doort double service charge = 50; Currentard Cotting customer Name, double bolonce) " correct" ruper (untoner Nemo, account number, withbraw (double smorph) & hallin word if (below mount >=0) lalance - = amount System of out printly ("Withdraw Successful"); uhdate Bolones(), 3 else 5 1 sometime "I metern to adol " Snafficient Bolera"); 3 w towards I Jan 10 puller void update Balince US if (Bolone Minimum Bolose) & Bolare - - Levin Charge; mily men without surely trans.

1	
Red Con	
Dr. 72	else & (type equel I grow (our cont ")) ? . else & else &
ST. ST.	arrowd = new Corr part (); 3
	of System out printle ("Irested");
	Boolean gut = False;
	while (! gut) {
	Lysten out pointly (" W. Deposit In
	2. with her Vn
	3. Deplay Deleve 15
	4. Update Balans 1h
_	5. Out();
	so witch (choia) &
	(are 1: System and pointly ("Enter Bomond:");
7);	double deposit Amount = Sc. next Double ()
7,	account deposit (deposit Amount);
(1)	break;
")	ase 2: System. out. printle ("Withbrew And");
	double authorize Ant = SC. next Double ();
	account-withdraw (withdraw And);
	busk;
	are 5: account difloy Bolance ();
	bruk;
	case 4: account, update Balance ();
	break;
	cox 5: quit = Ime
	break;
	3
Ni	1: 10-64 3
_24-	frintle (3
	Lysten: out println ("Thank you");
MER	3
9(3)	3

Tim t 3 = t1. Add (t2);

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ea	Account account;
lay	il teli
	if (type-squels I gnorelose ("durings")) &
e	THE PARTY TO THE P
	get squas some (are (" (urne +")) }
-	else & secount = new don't Current();
	System out pointen ("graded");
	Boolen guit = False;
	· that
	System out porintln (" 11. Depart In
	2. Utithdraw in
	3. Display Balance (n
	4. Update Balance In
	5. Poit):
	suitch (choice) 8
	case 1: System. out frintly ("Enter Amount:");
	double deposit smount = sc. nent Double ();
	scount. Sporit (deport Amount);
	break; the same and and and
	case 2: System out forintly (" withdown Amt");
	double withdraw Amt = sc. next Double ();
	sccount withdraw (withdraw port);
	brook: + my . West toward
	case 3: account. display Bolance ();
Dali	treak;
	case 4: account upidate Balance ();
161	lacel. was taken 4
13	core 5: aut = Drue;
SII	break; tradic at travers what
	33 dystem out pointln ("Thank you");
2-27	3
	3

Bafon Gold Filer choice 4 8-thest updated and added Enterchoice: 3 Colonce is 30125.0 Enter Choice: 5 1 4502 4 10 . . .

enception	Profess Gold
father land	[]
1100	class so at 1 and 6
if I clay	class son entends Father &
a take	SAR:
when looked	con (int 1 Age, int sage) thrown Virona Age &
	Super Cliffe),
An	if (5Age <0) {
.0	Thorse new Wrong Age ("don's Age is here's);
	3
	if (sAge >= fAge) s
	therow new wrong Age ("South age count be greater
	therow new wrong Age ("South age count be greater than Father's Age");
	this sage = Age;
	3
	3
essegi;	public class Father don 8
	public static void main (String Dargs) &
	public state Voto main (solving 1 songs)
	try 5
	Father fother 1 = new Fathers Father (40);
	don son! = new son (40,20);
	Intern But - bound in (tothers rige . 1 196)
	dula out bointly don tol . styl
-1	Father father 2 = new Father (-5);
not	7
tire");	+0 (0. 0) 5
	catch (wrong Age e) 2
6)	dystem out pointln(e);
73	3
	toy S
102	son 182 = new son (35,40);
ON	3
	1 11 (11 1 1 1)
	exten out println(e);
	System out foundance)
	3

Q. Write a program which creates two threads, one thread desplaying "Ems college of Engineering" once every ten records and another displaying "SE" once every two records: -> class Thready extends Thread ? String s, int time; Thread (String 5, ind time) & this.5=5 this time = time ; hulle void run(1; System: out println(5); Thread slap (time *1000); public class main & hullis state void main (Storing orgs []) {
Threads to = new threads ("BMS college of Engineering")} Throsoftz = new thread ("CSE", 2); 41. start(); t2. stat();