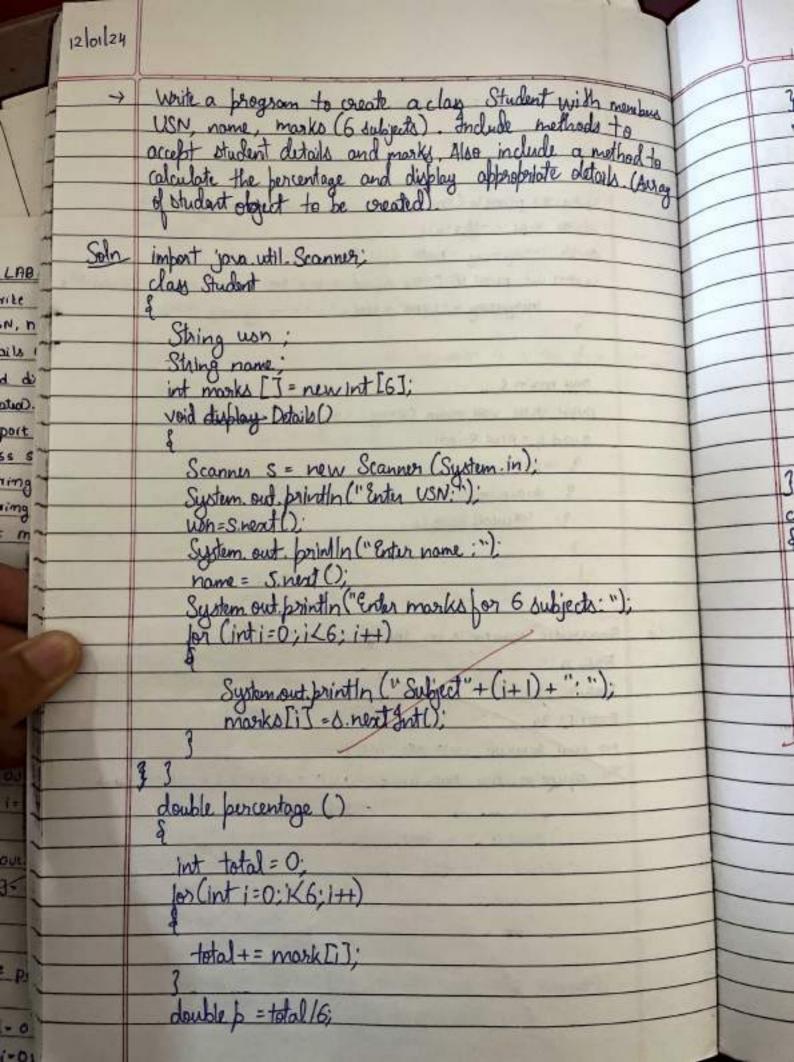
	day 11.60
-	System.out. perintln(i);
C.,	2
100	the second section of market a visit
The Me	13 to the designation of the and the
-	class Overload Demo
	to the ten tellurered Combine source
	public static void main (String [] args)
	t the trive ve
	Ovuload 0 = new Ovuload ():
-	0. print(5); (a beildom him
-	0. print (7,13);
	J O = max tot
	S (AND TOP SALES TO DEA)
Olp	Sum of 5 matural numbers is its
	prime numbers in the range ane
esolmun.	
	H Sand 4 to
	13 (n tol na let token viet
a.	- It is reclaim with the the subject
W	10 14k
	family market part of the family of the fami
(es_	class Grocery (
	String c- name;
	String C-ph;
	double total;
-	Grocery Cotring c-name, String c-ph) (
	this c-name = c-nam;
	this c-ph = c-ph)
	3
	void cole (double q-dal, double - q-puise 1 double q-sugar)
	total = q - dal * 100 + q pulses + 80+ q sugar *50;

void display () system out-print in ("Name "4" + phone number "+"" Total) system. out. print In (c-name + " "+c-ph+" "+total); system out print In (); dow apamol public static void main (string is augs & CHOICTY 91 - new grocky ("Ramo", " 8060302010"); (noticing 92 = new growing ("shama", "9481520238"); Growy 81 = new growny ("Bhama", "9448 8 22133") 91. (0) (2,2,1); gr. display (); 92. COLC (3.5,2); 82. display (); g3. valc (1,1,0.5); 33. displayers Total phonomorphon 00 None Rama 8060 302010 410 Name phone number Total 008 Shama 9481528238 Name phase number TONU 205 Bhoma a44 8 8 2 2133 1 south

```
03
      import java . util scanna;
       Class Quad (
       int phici
       double root-1, root 2, d;
       scanner s = new scanner Csystem-ind;
       Void imput()
     system out print in ("avadratic equation is in the form : or 2+bx-12
     system out primit (" Entra :");
      a = S.nextinte);
     System. Out print ("Enter b;");
     b= 8 - next intel
     Bystem out print (" Entuc; ");
     L = S. next (mtc);
     void discriminant () (
     d = (b + b) - (4 + n + c);
    wid calculate roots () (
     (d>0)
     System out primt ("ROOM are equal");
     100t 1 = (- 6+ Math. cyrt(d)) / (2*a);
    100t2 - (-6-Math sgrt (d)) / (2+a);
    System. Out. primtle (" First root is "410011);
   system - out - primitin ("second rout in : " + 10012);
      enc is Cd == 6)
       system out print ("Roots one real and equal");
       10011 = (- bt Math : Sq1 + (d) (2 = a));
```

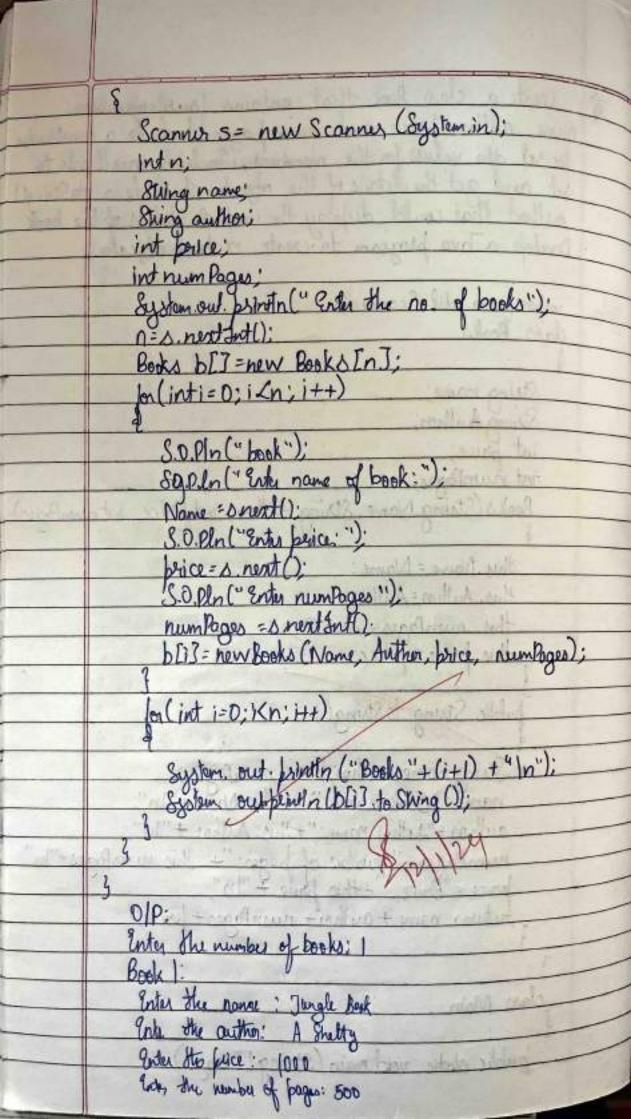
	System out println ("Roots;"+100+3);
	y
	elie
	Contract the section of the section
	System-Out-print in ('no real solutions roots are imaginary');
	double real = $-b(2+a)$;
	double imaginary = Hath. Sq. (-d) (2 = a);
	system out prind in ("The equation has two complex moots : "treat"+
	imaginary + "i and" + real + " - " + imaginary + "1");
	7
	3
	day main t
	public Hatic void main (sminy [] angs) (
	avad q = new quadi;
	q. imputes;
	9. discriminant ();
	e. calculate Rook ();
	y (" more refrict Villamore than make a
	3
	The stable and when and rational ten me
0/0	Quadratic equation is in the form: ax^2+bx+c
	Enta a:5
	Entub: 10
	Enter e: 30
_	No read Solution roots are imaginary.
_	The equation has two complex toots: -1.0+2.23606797 and
_	-1.0 -2.360
_	
_	The state of the s



	network;
/	
/	void display()
	System out println ("In Student Details:")
_	assem, out printing (ISN: "+ usn);
_	System. out. println ("Name: "+ name); System. out. println ("Marks: ");
_	System, out. println ("Marks:");
	System.out. println ("Marks:"); or (int i = 0; 1<6; i++)
	Sust a 1 las 11 /40 11 411 . C. 1 11 11
	System.out.println ("Subject" + (i+1) + ": "+ marks[]);
	3
	System. out. println ("Bescentage: "+ percentage()+"%");
	3 O PORTUGUEST IT),
	1 Auto Dalle Ballet Bal
	class Lab Student
	1111 11 11 11 11
	public static void main (75ting angs [])
	Samuer &= way Samuer (Custing in)
	Scanner S= new Scanner (System in); System out println ("Enter the number of students: ");
	intn = S-nextInt();
	0 0 100 1 0 1
-	Student [] students = new Student Int; for (int; = 0; i(n; i++)
-	
	students [i] = new Student().
	System out printin ("In Enter Details for Student" + (i+1)+ "; ");
	students [i] & Details ();
	3
_	for (Student student: students)
	4
	2 student display ();
-	3 3

	Output:
	Enter the number of students: 1
	Enter USN
	IBM22CS3/5
	Enter name
1100	
	Enter marks for 6 subjects:
	Subject 1-991
	Subject 1:991 Subject 2:89
	Subject 3: 90
	Subject 4:98
	Subject 5: 89
60.350	Subject 6: 89
	orgin o. or
	Student Details
DE ALL	USN: 18M22CS315
	Nome Suvina
	Subject 1:99 Subject 4:89 Subject 2:89 Subject 5:89
De File	Subject 2: 89 Subject 5: 89
	Subject 2: 89 Subject 5: 89 Subject 3: 40 Subject 6: 89
of the said	and the profession of the mark of the market of the market of
	Percentage: 92.0%
	Mich And Sand Charles & Follow &
	The tay have fairly a state of the state of
1	The state of the s
	Lateral in Milking after the Mathewall dear makes

Create a class Book that contains four members: name, author, prize and num pages Include a constructor to set the values for the members, Include methods to set and get the details of the objects. Include a to String! method that could display the complete details of the book Develop a tova program to create n book objects. import, jova. util. Scanner; class Books String name; String Author; int Brice; int numbages; Books (String Name, String Author, int price, int numbages) this Name = Name; this-Author=Author; this numPages = numPages! this price = price; public String to String () String name, author, price, numbages; name = "Book name: " + this. Name + "In" author = "Author name: " + this. Author + "In"; num Pages = "Number of pages: "+ this num Pages+"In"; price = "Brice: "+this brice + "In"; gretion name + author+ num Pages + price; class Main void main (String [] args)



19/01/24 Developa Jova program to create an abstract class named Shape that contains two integers and an empty method named printAreal). Provide done classes named Rectangle, Triangle and Circle such that each one of the closes extends the class shape. Each one of the dashes contain the method print Area () that prints the area of the given shape. Solo import pra util. x; dais Input Scanner Sconnersc = new Scanner (System in) Input Scanner () S.D.Pln ("Enter the radius") a = Sc. next 3rd(): else S.D. Pln ("Enger height and weight"); b=sc.nextInt(); abstract dass Shape extends InputScanner abstract void printArea (); class redangle extends shape

void frild Area () S. Opln!" Area of the restangle is "+ (double) (a+6) class triangle extends Shape S.D. Oln ("Asca of triangle is" + Calouble) (a & b)/2) class wich extends Shape void print Area () a*a)); Area of circle is "+ (double) (3.14 * das Aria Main public static void main (String orgs []) S.O.Plac" For priangle "); Wandle to new tringle (): S.O. De (" For rectangle"). nedangle n= rew nedangle (); Saplal For and ") circle (= new arde (); T. print Area (); 92 Just Areal); . Q C. print Area();

Dutput:-For triangle Enter height and weight For rectangle Enter height and weight For circle Enter radius married struct Area of triangle is: 3.0.
Area of rectangle is: 20.0
Aua of richeis: 78.5 THERETO ST DYNOR a composited the contraction

Bonk Account import jeva util Scanner; class Account String automernane; 01/20 String acc type: Account (String customername int acc no string acc type, double balance) this customernane = customernane; this occ_no = acc_no; this accitype = accitype; Void deposit (double amount) vc . balance += amount. System. out printly ("Updated balance: " + balance); void display Balance () Systemant println ("Bolance: "+ balance); class eur acc extends Account 0 double min-bolonce; double survice charge; Civir - occ Cotring customername, int acr no, double balance double min balance double service darge

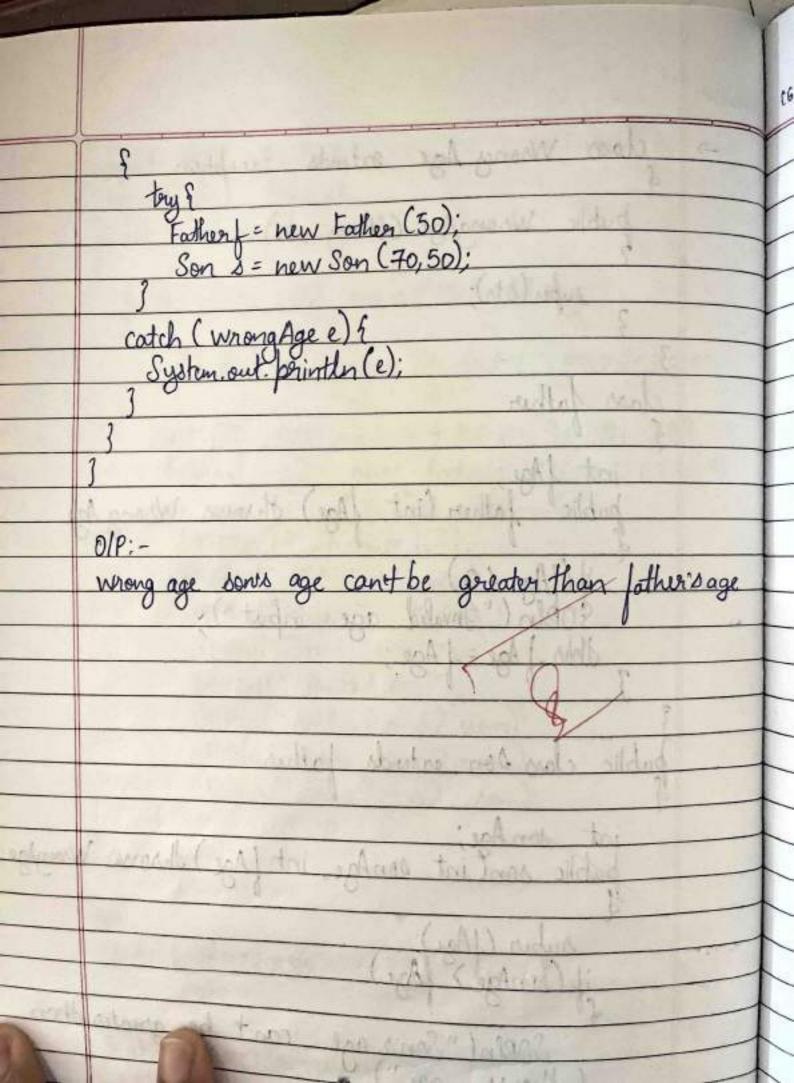
super (customer name, acc no, "current", balance); this, min_balance = min_balance; this survice change = survice change; void check Min Balance () il (balance (min balance) balance - = survice charge;
System out println (" Service Charge imposed"
+ "Updated balance: " + balance); System. out. printles ("Min Balance maintained.") does sov ocet extends Account Savacet (String austomyname, Intacc no, double balance, double interest rate) Super Constantiname; acc_no, "Sovings", balonce; This. intust_rate = interest_rate; Boposit Interest () double interest = balance * interest_grate /100; balance += interest; System out printles ("Interest deposited!");+
"Bolance!" + bolance).

void unsthur (double amount) il (amount L= balance) balance == amount; S.D. Plnl "Remaining balance: "+ balance) Insufficient balance) Sophi public class Boo Bank public static void main (String [3 args) currocat ca = new arrocat ("abe", 12345, ca. deposit (500,0); ca. check Min Balance (); ca. display Balonie (); savacet sa = new savacet ("xyz", 12367, 2000, 5): sa Deposit Intrust (): Da. Wilholrow (3000); so display Balance (); Updated Balance: 1500 Min Bolonce maintained crust deposited Updated Balance: 2100.0 Remodring Balance: 1800.0 salance: 1800.0

18/02/24 Packages package CIE public class Student bublic String usn;
bublic String name;
bublic int sem;
bublic Student (String usn, String name, int sun) this was = won; this name name; Ship. Dem= Dem; public class Internals bublic int [Imarks; bublic Internals (int[] marks) 3 this marks = marks; import CIE Student; bublic class Extural extends Student bublic Enternal Cetting usn, String name, int sun, intE) marks) this marks = marks;

	import CIE. Student;
	import SEE External;
	public class Main
	+11.12
	public otatic void main (String [] args)
	A STATE OF THE STA
	Students = new Student ("1BM 22CS315"
	"abr 3/
	External 12 = new External ("IBM 22 CS 3/5)
- 4	External 12 = new External ("IBM 22 CS 3/5"
	"xyz", 3, SEEmorks");
	S. O. pln (" Student 1: ");
	Sopln ("USN: "+ol. usn);
	Sorln ("Nome: "+ Ol.name);
	Sophi' Sem: "+ al. sem);
	Spelnt" Student 2: ");
	Soplat" USN: "+ s2. usn);
	Sopla! Name: "+ & 2 name);
	Soplal" Sem: "+ s2. sem);
-	3
-	3 Settles Warm with
-	
	O/P:-
	Student 1: 1BM22CS315
	abc Anhair ara
-	+3 to thester touches and ald
-	Studenta: 1BM22C5299
-	192
-	and of the case of and and all all and all all and all all all all all all all all all al
	Augus Oltill

class Wrong Age extends Exception public WrongAge (String str) class Jather jublic Jother (int Jage) throws Wrong Age if (|Age <0) Solln ("Invalid age input"); This. | Age = | Age; public class son extends father int son Age; public son (int son Age, int [Age) throws Wronglige Sopla("Son's age can't be greater than father's age"). 7 this - son Age = son Age; public dow Main public static void main (String orgs [])



102 24 White a program which creates two threads one thread.

displaying BMS college of engineering once every the ten

seconds and another displaying "CSE" once every 2 seconds. class BMS implements Runnable of bublic voyal gum () { while (true) of System out println ("BMS callege of Engineering"); Thread . Seep (1000); 3 catch (Interrupted Exception e) of e printotack Trace (); class CSF Implements Runnable & public void run () f

while (true) &

try f

System out print ("CSE"):

thread. Aleeb (2000):

I catch (interrupted exception e) f

C. print stack trace (); public class Main f public Atotic Void main (String [] args) {
Thread t1 = new Thread (new BMS college of Engineering ());
Thread +2= new Thread (new CSE ()); . Stant ()

The sale	Olp:-
	BMS college of Engineering
	CSE O TO
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	Greating label parion and Textfield in a frame win
-	Greeding label button and Textfield in a frame using
-	mportjava aut . *;
b	mport Java aut want K.
1	mportjova awt. event. K; mbortjova awt. event. K; mblic class AWTExample intends WindowAdapter f
7	sublic cross 71 1/1 vicample ~mindo windowadapter 1
'	Erame f: AWTEXAMPLE() {
	AWI Example() ?
-	= new Frame ():
_	add Window Histories (this):
	Jabel 1= new Jabel ("Employee id: ");
	Button b = new Button ("Submit");
	Textfield t = new Text Field ();
	1 set Bounds (20, 80, 80, 30);
-	1. set Bounds (20,100, 80, 30);
	b. set Bounds (100, 100, 80, 30);
	1.000(b);
ŀ	lodd(l):
-	J. odd (t):
	1. Not size (400, 300):
	. set Layout (null);
ŀ	sit visible (true);
	2 h
	public void window Closing (Window Evente)
	Principle 18th
	System. exat(0):
	public static void main (String [3 args) }
	public static void main (String [] args) { AWT Example aut obj = new AWT Example ();

=

- Greate a button and add a action listener for Mouse click import jova out x. Import java aut event *; doss Event Handling extends window Adapter implements add Window Listener (this): = new Tenfield() . At Bourds (60, 50, 170, 20); thon b= new Button ("click me"); b. set Bounds (100, 120, 80, 30); p. add Adion Listener (this) bot 8 ze (300, 300); sethaput (null) sof Wilde (towe public void action Reformed (Action Event e) of more willowed? ?

System enail (0):

public word Windowslowing
(windowslowing) blic static wid main (String [] args new EventHandling (); OIP welcome Click me

+ Example Programs on IO Example-1. Import java 10. x; public class Byte Array Input &

public static void main (String [] args) throws Io Enaption

f byte [] buf = 435,36,37,383; Byle Array Inputstream byt = new Byte Array Inputsburg While ((K = byt, read ())!=-1) { Charch = (char) K;
System out println ("ASCII value of character is:"
+ K + "; Special Character is:" + ch); 0/P:-ASCII Value 35 ASCII value 36 ASCII value 37 ASCIT Value 38 Example - 2 public class File Ex (String a []) throws Io Exceptions File Inputstream (" Excample tat"): ind condent S.OP("Remaining bytes that can be read: "+fin.available()); content=fin. read (); S.OP("Char) content + ""); SOP(content + ""); SOP ("Remaining bytes that can be read:"+fin. available()); SOP ("Remaining bytes that can be read:"+fin. available());

0/P: -Remaining bytes that can be read: 1 A
Remaining bytes that can be read: 0 65 Example-3 import java uddio File Input Struam; import jour. 10. IOException; bublic class File & 2 & public static void main (string a []) throws IoExceptions
File Input Stream fin = new File Input Stream ("Example 120") byte [] bytes - new bytes [20]; infi i = (In read (bytes): System.out: printler ("Number of bytes read: "+i); System out print ("Bytes great:"); for (byte b: bytes) c= (choo) b System out print (c): DIP: -No of bytes read: 20 Bytis read: Hello it is good