LABPROGRAM - 1

TREK - 3 (LUB) 29/09/2030. 00J. LAB. 010 010 (1) quadratic java. utid. Scanner; import public class quadratic Equation { private static Scanner SC; public static void main (a, b,c; double chauble roots, roots, imaginare sc = new scanner Csystem. in system.out.print (" Put co-ebf a = sc.next Double (); b = sc. next Double ()' c = sc. next Doublect; discriminant = (5*5) - (4*a*c il (discriminant >0) root1 = (-b , Math . sqrt (diserin root 2 : (- b + Math. sqrt Colisciminan

```
(discriminant==0)
else il
  root 1 = root 2 = - 5/(2 * a) :
  system. out. printen ("In iwo Equ
                       root 1: "+ root 1+"
                        10012: " 4 10012)
else il (discriminant < 0)
   system. out. println ("In BOOTS A
                                 REAL")
```

```
# Blue: Terminal Window - TEST1
Options

ENTER CO-EFFICIENTS a,b,c:

1
8
2

TWO DISTINCT REAL ROOTS ARE: root1 = -4.258342613226059 and root2 = -11.74165738677394

ENTER CO-EFFICIENTS a,b,c:

1
2
1
TWO EQUAL ROOTS: root1 = -1.0 and root2 = -1.0

ENTER CO-EFFICIENTS a,b,c:

10
5
2

ROOTS ARE NOT REAL
```

LABPROGRAM - 2

	LAB 2
06/10/20 ²⁰ .	
OG	import java. util. scanner;
	class student (
	private string usn;
	private string name;
	private intel credity;
4	private double[] marks;
	private int n;
	void get Details () {
	sconner se = new sconner (s
	system.out. println ("Enter no
	Jubjech

```
n = 1c. next Int();
credit = new intent;
marks = new double (n):
system out println ("Enter student a
UIN = sc. next();
 System. out. println ("Enter student
 name = 1c. next ();
 Por Cint iso; iso; ist) }
    System. out. println ("Enter credit
      marks of subject" + (:+1) + ":");
    credity [i] = renextzat();
    warmi (!) = je vent Donple ();
 void print betain () [
   system. out. printin ("student details
                        Pollomi,):
  system. out. printla ("Nome: "+ name
                        + (117);
    0, (int i=0; i=n; i++){
    System. ow . printly ("105"+ (i+2) + "N
    + markitil + " \ + credite is: " + cred
```

```
roid orgpactae () [
     double syra:
      int() grer = new int(n);
      int cied sum = 0, gr, spger = 0;
      Por (:n+ :=0: i < n; i++)[
          cred sum += credits(i);
          il (waike (i) >= 00) [
                SP = 10;
          elie : [ (marks [i] > = 80) {
                   (mails (i) > = 70) {
           else
                  Sr=1;
           clse : ( C marks (i) > = 60) [
                   90=7;
                 i ( marks (i) > = 50) {
           6176
                  i (marks [i] > = 40) {
            Clse
                    9 P = 4 5
```

```
sgpa = spger / (ered sum + 0.0);
 system. out. printlu (" student's sgi
class main {
   public static void main (string []
         Student si = new student ()
          11. get Details ():
         5 L . print Detail ():
          si · sgraelac ():
```

```
Student details are as follows:
Name: KRISHNA_MOHAN_DULLOLLI usn: 1BM19CS075
Sub1 Marks is: 100.0 Credit is: 4
Sub2 Marks is: 100.0 Credit is: 4
Sub3 Marks is: 100.0 Credit is: 4
Sub4 Marks is: 100.0 Credit is: 3
Sub5 Marks is: 100.0 Credit is: 3
Sub6 Marks is: 100.0 Credit is: 3
Sub7 Marks is: 100.0 Credit is: 1
Sub8 Marks is: 100.0 Credit is: 1
Student's sgpa is: 10.0
```

LABPROGRAM - 3

20	. 68-3
13/10/2020	,
i	mpost java. util. seanner;
	class beoks
	string author;
	string name:
	string nooleds;
	string price;
	scanner sc = new scanner
	void get Details () {
	system. out println (" aute
	author = sc. next();
3	system. out. printle (" boo
	name = sc. next();

```
system. out. printly ("Num of pages &
nool pgs = sc. next();
 price = sc. next();
public string tostring () {
   return ("AUTHOR:" + author + " 175
         + name + " in rages : " + noc
          Drice + price );
500k ()
    author = "xyz";
    name : "hirani";
    noolog1 = " 56 pgs";
           = " 1 00 TI ";
     price
void
      display ()
      system. out . printly ("AUTHOR :" +
     system. out printh ("Book name:
      system. out. printle ("Num pages
     system out printly ("price: " .
```

```
book si = new book ();
system. out. print un ("TO : wow A
          included default consti
S1. display ();
system. out. printle ("In In Enter
n = sc. nex tInt();
Scok SCT = new Sook[n];
 Par cint :=0; :=n ; i++)}
  system. out. printly ("Enter boo
   bcij: new sook ();
   SCi), get Details ();
system out . printle C"ALL Book de
                       you enterec
 for Cint 1:0; izn; i++){
    system. out printle (" Book" . "
    syttem. out. println ( bci) . to
```

ALL BOOK DETAILS THAT YOU ENTERED

B000K :1

AUTHOR : RAM

BOOK NAME :RAMULU_SAIT

PAGES :100

PRICE :100

LABPROGRAM - 4

,	LAB5
	63/11/2020; LABS
<u> </u>	1). 1x abstract class share # 1
,	
•	import java. util. scanner;
	abstract class shape {
<u> </u>	double dima, dima;
•	snape (double a, double b)
	0:m1 = c:
-	0:m2= >:
-	3
	abitiact double printarea(){
1	class rectangle extends shape {
	rectangle (double a, double b) {
	super (a,5)
-	double printageac) {
r	system. out. printly ("AREA OF
r	return dins + dinz;
1	7

```
class triangle extends shape
 triangle (double a. double b)
       super (a, b) }
double printarea () [
     system. out. printly ("AREA OF TRIAN
     seturn dimet dime /2;
etass circle extends shape {
  circle (double a, double b) {
      super (0,5);
   double printarea () }
    system. OUR. printin ("AREA OF CIN
      return ( 3.14 + cdim1 + dim2)
      2
elast shape Main }
  public static void main (string est
  rectangle + = new rectangle (a: 10
  triangle 1 = new triangle (a: 10
                               ( cu: 1
  circle
            e = new circle
system. ow. println (" "++. print area
system. out. printlu (" - "+ t. print area
```

System. out. printlu (" " + c. point are

AREA OF RECTANGLE: 100.0

AREA OF CIRCLE: 314.0

AREA OF TRIANGLE: 50.0

Process finished with exit code 0

LABPROGRAM - 5

(3)	/* Bank account +/
	import java. util. Seanner;
	elass Bank &
	string Bankname;
	3
	class accounts extends banks
	scanner se = new scanner (system.
	string name, acctype:
	double acenum;
	double sacenum, caccunum;
	double ci;
	double rate, principal, year;
	void set d C) {
	system out printle ("customes Nam
	name: se nentel;
	system. out print (" Account type :
	acceype : sc next-();
	system out print ("savings acc no
	saccount = se next Double();
	system out . print (" current acc ne
	cacenum = se next Doublec);
	>
)
	class savings extends accounts {
	Ca show &

```
il (c: of > c: o) [
elte
    ei : eid - eib;
   phatance 1 = phatance 2 - cib;
  systemout. printle ("In - -. Acc sa
                          + pratance 1
9115
  system. out printle (" comp INT I
       AND ACCOUNT BALANCE IT!
3
      current extends account 1
CICLT!
     Scanner se = next seamner Cayete
        eleposit, with draw, pratance
void setd 2 () }
   system out print ("In . - current -
   system. out. print (" present balan
   phatances : sc. next Double ();
   system. out. print (" Deposited :")
    deposit : sc. nexthousee ();
   system out print ("withdraw"):
   with down = 10 nexthouse (1)
   phatance 2 = (phalance 2 + deposit)
```

"4" _ ~ "+5 pbalance 1 "+ 211;

Control of the Contro
System. out. printlu (" curent acc
 min balance -
e. etrecte marin (1;
system. out. printin (" INTREST ea
¹);
s.conpintes;
}
>

Output

CUSTOMER NAME : ABC

ACCOUNT TYPE : SAVINGS

SAVINGS ACC NUM : 123456789

CURRENT ACC NUM : 987654321

TRANSACTION DETAILS

----SAVINGS ACCOUNT----

PRESENT BALANCE : 10000

DEPOSITED :1000

WITHDRAWN :1200

----CURRENT ACCOUNT----

PRESENT BALANCE : 10000

DEPOSITED :1200

WITHDRAWN:5000

```
---BANK BALANCE AFTER TRANSACTIONS----
SAVINGS ACCOUNT NUM(1.23456789E8) -> 9800.0Rs
CURRENT ACCOUNT NUM(9.87654321E8) -> 6200.0Rs

----CURRENT ACCOUNT MINIMUM BALANCE CHECK----
MINIMUM BALANCE IS MAINTAINED AND ACC BALANCE IS :6200.0

----INTEREST CALCULATION OF SAVINGS ACCOUNT----

****DETAILS OF LEND AMOUNT****
ENTER AMOUNT DEPOSITED :10000
RATE OF DEPOSITION :5
NO OF YEARS DEPOSITED :1

****DETAILS OF BORROWED AMOUNT****
ENTER AMOUNT BORROWED :10000
RATE OF BORROWED :1
```