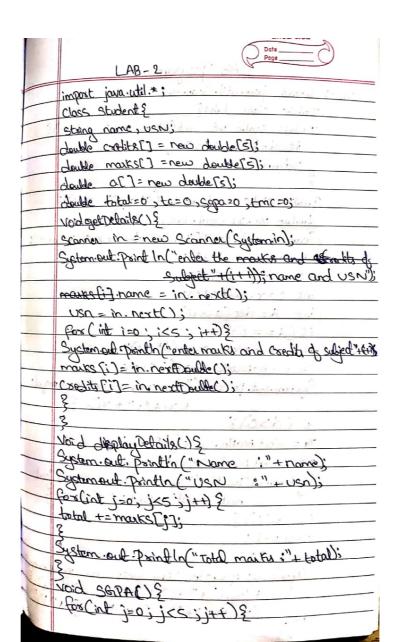
## LAB PROGRAM 1 :

|                              | Date Page  |  |  |  |  |
|------------------------------|--|--|--|--|--|
|                              | LAB Programs   |  |  |  |  |
| lab 1:                       | impost java. util. Scanner;  |  |  |  |  |
| (00                          | The class lates  |  |  |  |  |
|                              | Public Static int det (inta, int b, int c) {   |  |  |  |  |
|                              | int d=b* b-4* a* c;  |  |  |  |  |
|                              | retand:  |  |  |  |  |
|                              | 8  |  |  |  |  |
|                              | Public Static void main (String[] orgs) &  |  |  |  |  |
|                              | Louble XI. X2 xxal imag:   |  |  |  |  |
|                              | Scanner. out. Print("enter the a,b,c values:");                                      |  |  |  |  |
|                              | int a=x.nextInt();   |  |  |  |  |
|                              | int b=x.nextInt();   |  |  |  |  |
|                              | int c=x.nextInt();   |  |  |  |  |
|                              | int d= det(a,b,c);   |  |  |  |  |
|                              | if (d = = 0) {   |  |  |  |  |
|                              | x1 = -b + Math. sqxt (d* 1.0);   |  |  |  |  |
|                              | 80 = -6+Math. Sqrst(d = 1.0);  |  |  |  |  |
|                              | System.out. pointly ("the scots are sed and region:                                  |  |  |  |  |
|                              | +81+11,11+82); }   |  |  |  |  |
|                              | it (9>0) 5   |  |  |  |  |
|                              | 61 = -b+ math. sqrst(d* 1.0);  |  |  |  |  |
|                              | 82 = -b+ Math. 99/84(d* 1.0);  |  |  |  |  |
|                              | System out Println (" the soots one soul but   |  |  |  |  |
|                              | not equal" + 81 + "," + 82); }   |  |  |  |  |
|                              | it(9<0) &  |  |  |  |  |
|                              | real=-bi   |  |  |  |  |
|                              | imag =d;   |  |  |  |  |
|                              | System.out: PointIn ("the grots one imaginary" + (real)+" + ("+(+1.0 * imag)+"i)," + |  |  |  |  |
| + (real)+"+("+(+1.0* imag)+" |  |  |  |  |  |
|                              | }}} (seal)+"+("+(-1.0 * imag) +"i)");  |  |  |  |  |
|                              | 533.   |  |  |  |  |

# LAB PROGRAM 2 : WRITE UP :



```
if (mouks[j]>90)
a[j] = 10.0;
clse if (marks[j]>=80 && marks[j]<90)
else F (marks)
else if (marks [j]>=50 && marks [j
:0.2=[170
else
a[j] = 10.0;
System. out. Println ("SGPA:"+Sqpa);
Public Class Student Sapa ?
Puldic State void main States age) ?
 Student SI = new Student ():
 SI. get Dictails ();
  SI. display Details();
  SI. SGPACS;
```

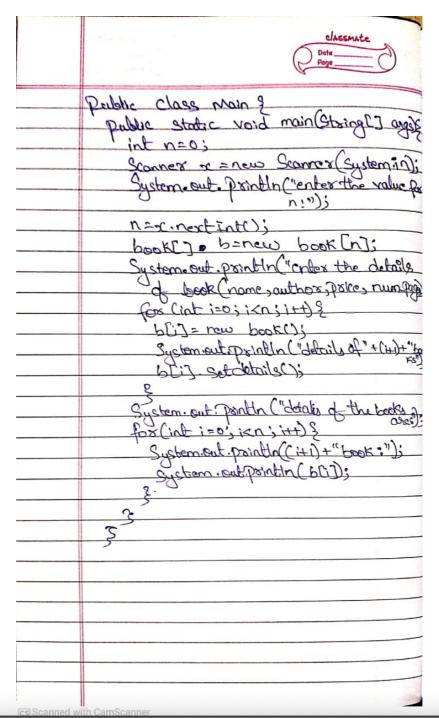
```
Enter name and usn

v
gj
Enter marks and credits of subject 1
45
5
Enter marks and credits of subject 2
99
1
Enter marks and credits of subject 3
78
8
Enter marks and credits of subject 4
67
4
Enter marks and credits of subject 5
56
9
Name : v
USN : gj
Total marks : 345.0
SGPA : 5.777777777777777778

C:\Users\shiv shankaraiah\Desktop\java>
```

## LAB PROGRAM 3:

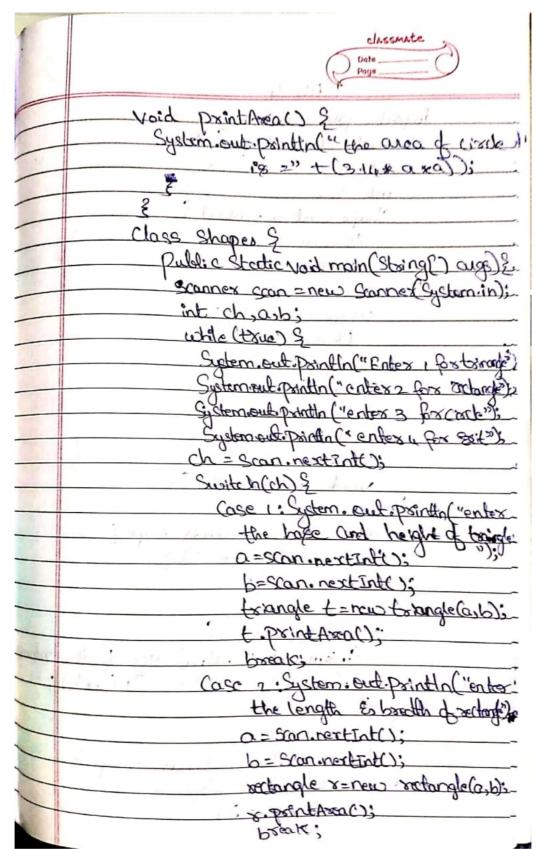
|      | lab3  |
|------|---|
|      | impost java. util. *;   |
|      | class book ?  |
| 1    | String rame;  |
|      | String author;  |
| 69   | double Price  |
|      | int num-pages;  |
| 33   | public book C) &  |
|      | name = "india's Hexo";  |
| 37   | author="panday";  |
|      | Price = 455.3;  |
|      | rum pages = 600;  |
|      | 3   |
|      | Public book (String name, String authors, double price, into num-pages) & |
|      | this name = name;   |
|      | this, outhor= outhor?   |
|      | this.pxice = pxice;   |
|      | this. rum-pages = num-pages;  |
| -3   | 30 The man have show within   |
|      | void setactails () }  |
|      | Scanner x=new Scanner (System.in);  |
|      | next=x.nextline();  |
|      | author= x. Nox & Line();  |
|      | Price = x. nextDouble();  |
|      | num-pages = r. nextInt();   |
|      | 2   |
|      | Public string tostoing () }   |
|      | soburn (name+","+ author+","+ price+","+                                  |
|      | vim too es);  |
| 1    | 3   |
| cann | ed with CamScanner  |

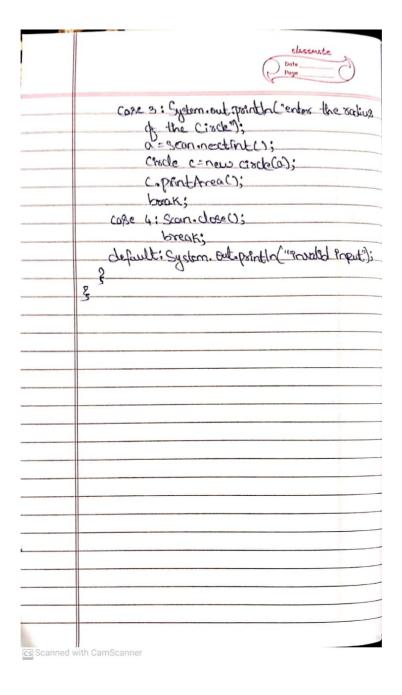


```
🛅 Desktop — -zsh — 80×24
Last login: Thu Nov 5 23:27:25 on ttys000
[vasanthkumar@Vasanths-Air ~ % cd Desktop
[vasanthkumar@Vasanths-Air Desktop % javac Main.java
[vasanthkumar@Vasanths-Air Desktop % java Main
enter the value for n:2
enter the details of book(name,author,price,num_pages)
details of 1 book:
tiger
ravi
345
890
details of 2 book:
india's hero
ananymous
450
6700
the details of the books are:
1 book:
tiger,ravi,345.0,890
2 book:
india's hero,ananymous,450.0,6700
vasanthkumar@Vasanths-Air Desktop %
```

## LAB PROGRAM 4:

| 1          | Date                                    |
|------------|---|
|            | LAB-4                                   |
|            | 2 1 20 10 1 dgl - * 1 / 2 1 / 2 1       |
|            | abstract: class shape &                 |
| 1          | int a;                                  |
|            | 10.0                                    |
|            | Shape Cint a sintb) &                   |
|            | this a =a;                              |
|            | this. a =a;                             |
| 4 11 1     | this.b=b;                               |
| in         | \$ 20                                   |
|            | Shape (int a) {                         |
|            | this.a=a3                               |
| Article A  | State of the same                       |
| Carlot     | Shape () &                              |
| 11/10      | this , a = 0;                           |
| d Loren    | this.b=0;                               |
|            | Elizabeth and the state of              |
|            | void PrintAsea () {}                    |
| 10         | in the sample of the same               |
| و الماسية  | ichass triangle extends shape {         |
| , .        | trianda (inta, int b) }                 |
|            | ildeo xagus                             |
| . A John   | 12 A Em 1 shows I                       |
| li li      | void pointAcca'c) {                     |
|            | Sydem. out. Println (" area of the sede |
| 1.1        | i8 = "+(a*b);                           |
| Sant J. L. | 11/2 2 11 11 11 11                      |
|            | 3                                       |
|            | class crocle extends shape {            |
| 4. 000 1   | CircleCint a) {                         |
| Ü.         | 8 upos (a);                             |
|            | 3                                       |
| Scanned w  | ith CamScanner                          |





```
Command Pompit

Filt Command P
```

## LAB PROGRAM 5:

| 1       | classaute                                   |
|---------|---|
|         | lab 5                                       |
| Cartes  | import java.utsl. *;                        |
| 1       | closs account ?                             |
|         | Grana A Customer war                        |
| -       | int account numbers                         |
| -       | String account-type;                        |
| -       | & scand occours - cape,                     |
|         | class curs-occt extends arount?             |
|         | Sconnex T = new Sconnex (Systemin):         |
|         | double tomo=0.0:                            |
|         | double temp=0.0;                            |
|         | double min-amount = 1000.0;                 |
|         | void getdetails() ?                         |
| ash it  | Customers - nome = r. northing ();          |
|         | account - number = I next Int();            |
|         | {   |
|         | vord desposit () {                          |
| 0.5     | System. out. Pxint ("Entex the deposit      |
| 7       | amount: ");                                 |
|         | temp = r. noet Double();                    |
|         | amount + = temp;                            |
| 100     | 2   |
|         | void showbalance() {                        |
|         | if (amount) = min_amount) }                 |
|         | System. out. Printin ("Balance is "+amout); |
|         | 3   |
|         | else ?                                      |
|         | fine = (amount *1.0 *10) (100;              |
|         | consunt -= fine;                            |
| cs Scan | ned with CamScanner                         |

| 77 77                                   | Page Date  |
|---|--|
|   | System out pointing the fine imposed to  |
| 1 (40)                                  | 1 1 1  |
| 100000000000000000000000000000000000000 | System. out. Policit Balance is " +amil  |
|   | g  |
|   | 2  |
|   | Void withdrawal() &  |
|   | Sustan out Point Enter the windraid  |
|   | amount:");   |
|   | temp = r: nextDouble ();   |
| Arrest 1                                | anount -= temp;  |
| 2/4/                                    | ٠, ٤   |
| fr. a" =                                | SLOTINATION OF THE STATE OF THE |
| 1 Horne                                 | chas sow acct extends account &  |
|   | Scanner x=new Scanner (System.in):   |
|   | double temp=0.0;   |
|   | double amount = 0.0;   |
| 9.                                      | double interest=0.0;   |
|   | Void getdetoil803  |
|   | . Customer rame= r. nextline();  |
| Samb.                                   | account = numbés = r. nortints   |
|   | and it & desires to property is  |
|   | void deposite) §   |
| 40 1 voto                               | System. But. Print 1" BEnter the   |
| Minney Comment                          | amount: ");  |
| Č                                       | temp= reret Double ();   |
| 3A                                      | compant + = banco:   |
| · /                                     | 5 man + comb;  |
| - 0 W 1 870                             | void Showbalance () §  |
| extense to                              |  |
| 2(110                                   | 3 ys bomo out Prointly (Balance & +  |
| cs Scanned wit                          | h CamScanner   |
|   |  |

Clowaspatiu book System.out. Point Enter the withdrawood temp= x .nextDout(); Interesto) interest = (amount +1.0+ 3) amount at = interest; void main canner (Systemin); stem. out. printin (" Neceme. to the "Enter the type count (curr-acct/son-acc "cure\_acct, )) } System-out printin (" Entor the Coustomer-name, Occount-number

a.getdetails(); while (true) & System. out. Pointln ("pross 1: Accepte System.out. point n ("press 2: display the balance "); System. out point / "press 3: withdrew System out pointly ("Pate oftion"); Switch (opt) & Case 1: a.deposit(); a · Showbalance (); break; · Case 2: a . Show balance (); preak; Case 2: a. withdrawal (); a Shawbalance D'; if Ctype equals "San acct")} System. out. Pointln ("Enter the -name account number: a. get details (); while(touc) & System. out: println ("press 1: accept deposit and yelot balance");

```
classaute
                 Systemant pointing " proce 2: deplay
                               a. Showbalance ();
                           2: a. choutdonce();
cs Scanned with CamScanner
```

```
🛮 Desktop — java Main — 80×24
Welcome to the bank service
Enter the the of account (curr_acct/sav_acct)
curr_acct
Enter the customer_name,account_number:
vasanth
12345
press 1 : Accept deposit and update the balance
press 2 : Display the balance
press 3 : Withdrawal and update the balance
Enter option : 1
Enter the deposit amount: 12000
Balance is : 12000.0
press 1 : Accept deposit and update the balance
press 2 : Display the balance
press 3 : Withdrawal and update the balance
Enter option : 2
Balance is : 12000.0
press 1 : Accept deposit and update the balance
press 2 : Display the balance
press 3 : Withdrawal and update the balance
Enter option : 3
Enter the withdrawal amount: 11500
the fine imposed : 50.0
Balance is: 450.0
```