Algorithm

Q.1.Find a student average mark given mark1 and mark2.

Ans-

Step1: Start

Step2: Declare variables mark1 and mark2 and average mark

Step3: Read values mark1 and mark2

Step4: Add mark1 and mark2 and divide by 2 and assign the result to average.

Average= mark1+mark2/2

Step5: Display average mark

Step6: Stop.

2. Calculate the total fine charged by library for late return books. The charge is 0.20 INR for 1day.

Ans-

Step1: Start

Step2: Declare variables 1st date, last date, charges for 1 day, no. of days, total charge.

Step3: Read values 1st date, last date and charge for 1 day.

Step4: No. of days= last date \_ first date

Total charges= no. of days \* charge for 1 day

Step5: Display total fine charged.

Step6: Stop

3. You had bought a nice shirt which cost Rs 29.90 with 15% discount. Count the net price for the shirt.

Ans-

Step1: Start

Step2: Declare variables cost of shirt, discount cost

Step3: Read values discounted, net price

Step4: discounted cost= 15%\*29.90=4.485

Net price= Cost \_ discounted cost

=29.90 \_ 4.485

=25.41

Step5: Net price

Step6: Stop.

4. Find the smallest number among three different numbers.

Step1: Start

Step2: Declare variables a, b, c

Step3: Read variables a, b, c

Step4: if a<b

If a<c

Display a is the smallest number.

Else

Display c is the smallest number.

Else

If b<c

Display b is the smallest number.

Else

Display c is the smallest numer.

Step6: Stop.

5. Find the roots of a quadratic equation ax2+bx+c=0.

Ans-

Step1: Start

Step2: Declare variables a, b, c

Step3: Read a, b, c

Step4: d= square root of b2 \_ 4ac

Step5: **x**1= (\_b + d)/2a

X2= (\_b \_ d)/2a

Step6: Display x1, x2

Step7: Stop.

START

Declare variables mark1,mark2,average marks

Read mark 1,mark2

Add mark 1,mark2 and divied by 2

Average mark=mark1+mark2/2

Display average

STOP

STOP

No of days=last date- 1st date

Read 1st date,last date,charges

Declare variables 1st date,last date,charge for 1 day,no of dates

START

Total charges=No of days\*charge

STOP

Display total charge

START

Declare variable costs of shirt,discount cost

Read values of discount cost,net price

Discount cost=0.15\*29.90

Net price=cost-discount cost

Display Net price

STOP

Declare variables a,b,c

Read a,b,c

Is a<b

Is b<c

Is a<c

START

STOP