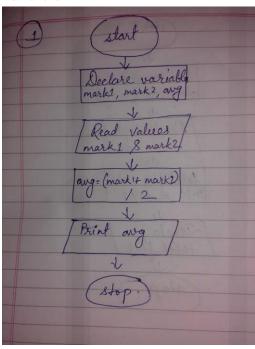
Write an algorithm and draw the flow chart:-

1. Find a student average mark given mark1 and mark2. Algorithm:-

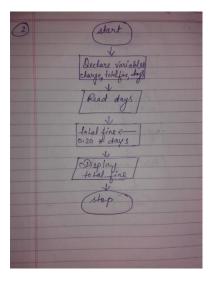
step1-start
step2-declare mark1,mark2 and avg
step3-Read values mark1 and mark2
step4-add mark1 and mark2 and divide by 2 and assign the result to average
average <- (mark1 and mark2) / 2
step5-display avg
step6-stop

#### Flowchart:-



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

step1-start
step2-declare variable total\_fine and days
step3-initialize the charge 0.20 INR for 1 day
step4-multiply 0.20 by days variable and assign to the total\_fine
total\_fine <- 0.20 \* days
step5-Display total\_fine
step6-stop

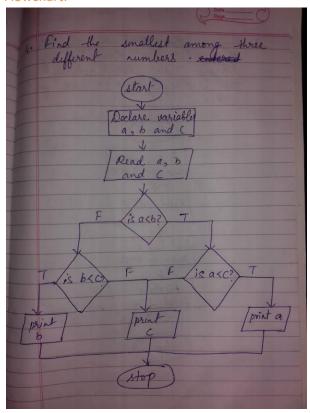


3. You had bought a nice shirt which cost Rs. 29.90 with 15% discount. Count the nett price for the shirt. Algorithm:-



# 4. Find the smallest number among three different numbers. Algorithm:-

#### Flowchart:-

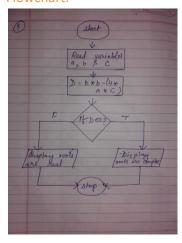


# 5. Find the roots of a quadratic equation ax²+bx+c=0 Algorithm:-

```
Step1-start
Step2-Read the variable a, b, c and D
Step3-assign b²-4ac to D
D= b²-4*a*c
Step4-if D<0
```

Display roots are complex Else Display roots are real Step5-stop

### Flowchart:-



## 6. Find the factorial of a given number.

## Algorithm:-

Step1-start

Step2-declare variable as num and fact

Step3-assign fact=1 and i=1

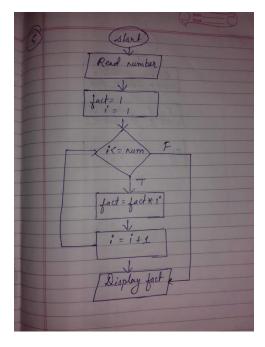
Step4-check condition i<num if false go to step 7

Step5-fact=fact\*i

Step6-update i=i+1 go to step 4

Step7-display fact

Step8-stop



## Practice questions(optional):-

D. get marks of 3 subject and declare the result . if the marks>=35 in all the subjects the students passes else fails.

## Algorithm:-

Step1-Start

Step2-Declare variables m1,m2 and m3

Step3-Read the value of m1,m2 and m3

Step4-if m1>=35 go to step5 otherwise goto step 7

Step5-if m2>=35 go to step6 otherwise goto step 7

Step6-if m3>=35 print pass otherwise goto step 8

Step7-print fail

Step8-stop

