ASSIGNMENT 1

Submitted by

Ritesh Kumar Mahapatra

Submitted to:

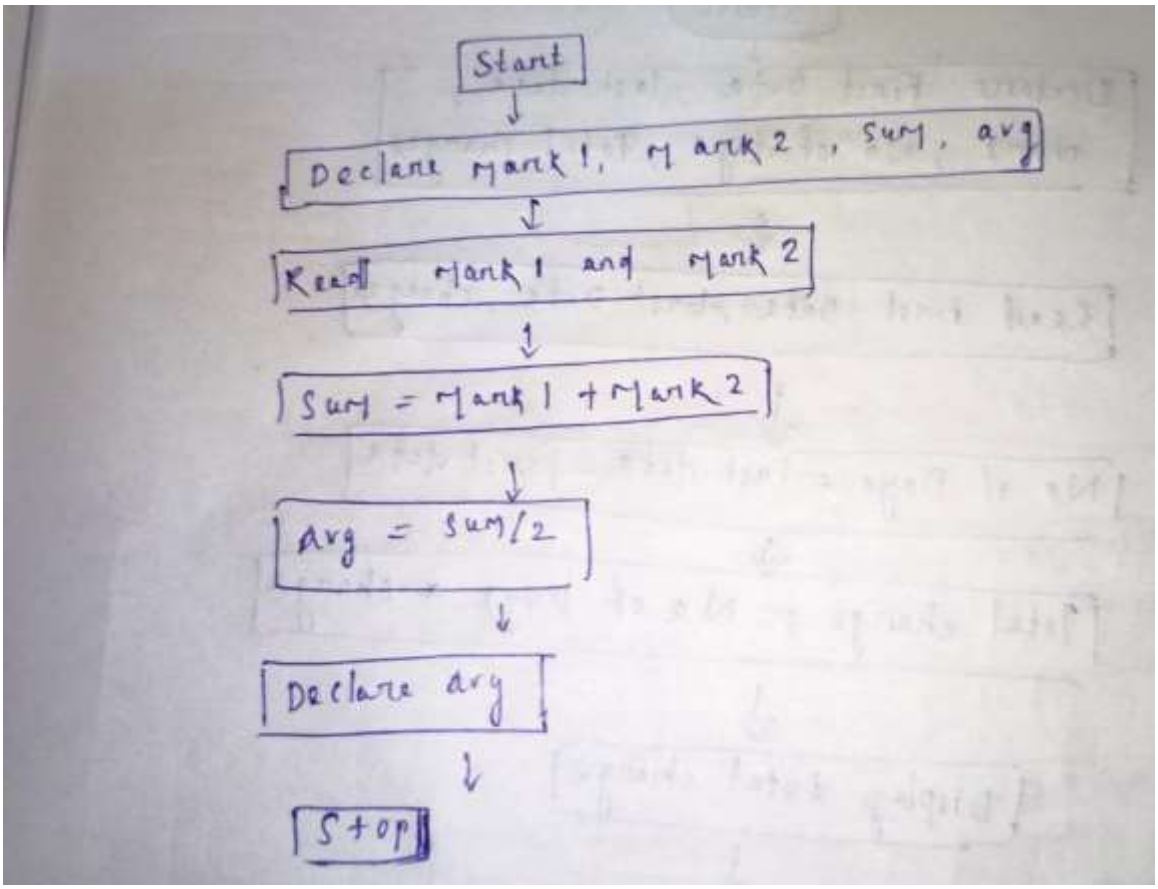
Prof M.Thangavel
CSE,ITER,SOA

Q1) Find a student average given mark1 and mark2?

ALGORITHM

step1:start
step2:declare mark1,mark2,sum,avg
step3:read mark1 and mark2
step4:sum=mark1+mark2
step5:avg=sum/2
step6:display avg
step7:end

FLOWCHART

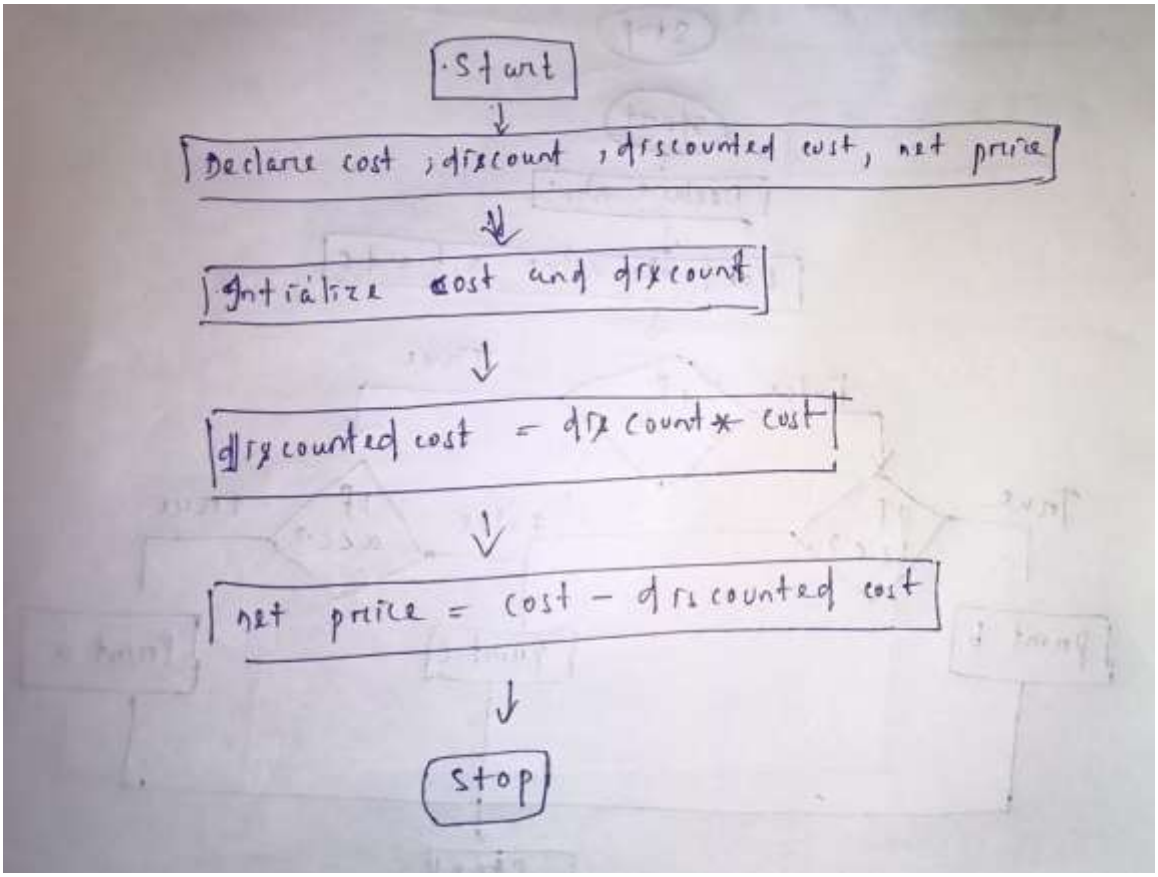


Q2) You had bought a nice shirt which cost Rs.29.90 with 15% discount .Count the
net price for the shirt?

ALGORITHM

Step1:start
Step2:declare cost, discount, discounted cost, net price
Step3:intialize cost and discount
Step4:discounted cost=discount*cost
Step5:net price=cost-discounted cost
Step6:stop

FLOWCHART

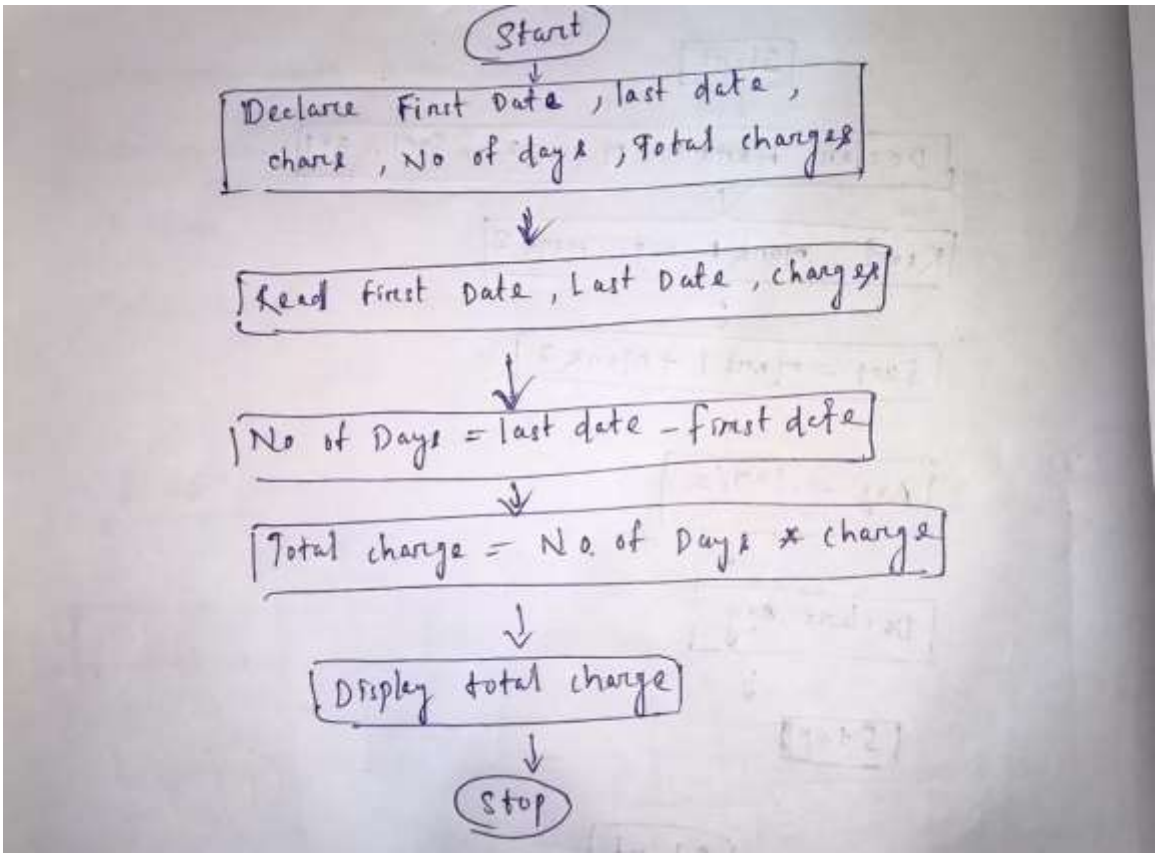


Q3) Calculate the total fine charged by library for late return books. The charge is
0.20 INR for 1day?

ALGORITHM

step1:start
step2:declare first date, last date, charges, no of days, total charges
step3:read first date, last date, charges
step4:no of days=last date-first date
step5:total charges=no of days* charges
step6:display total charges
step7:end

FLOWCHART

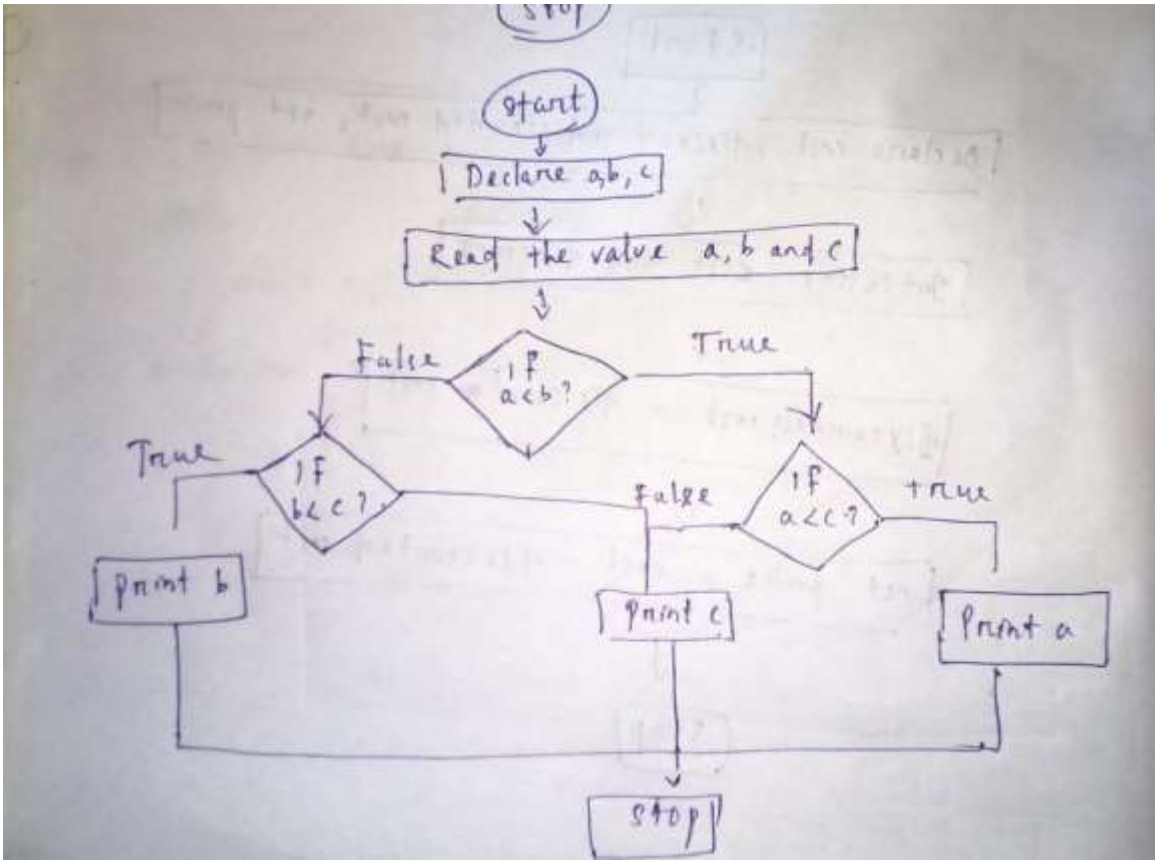


Q4) Find the smallest no among three different numbers?

ALGORITHM

step1:start
step2:declare a,b and c
step3:rread the value a,b and c
step4:if a<b
if a <c
display a is smaller
Else
display c is smaller
if b<c
dislplay b is smaller
else
display c is smaller
step5:stop

FLOWCHART



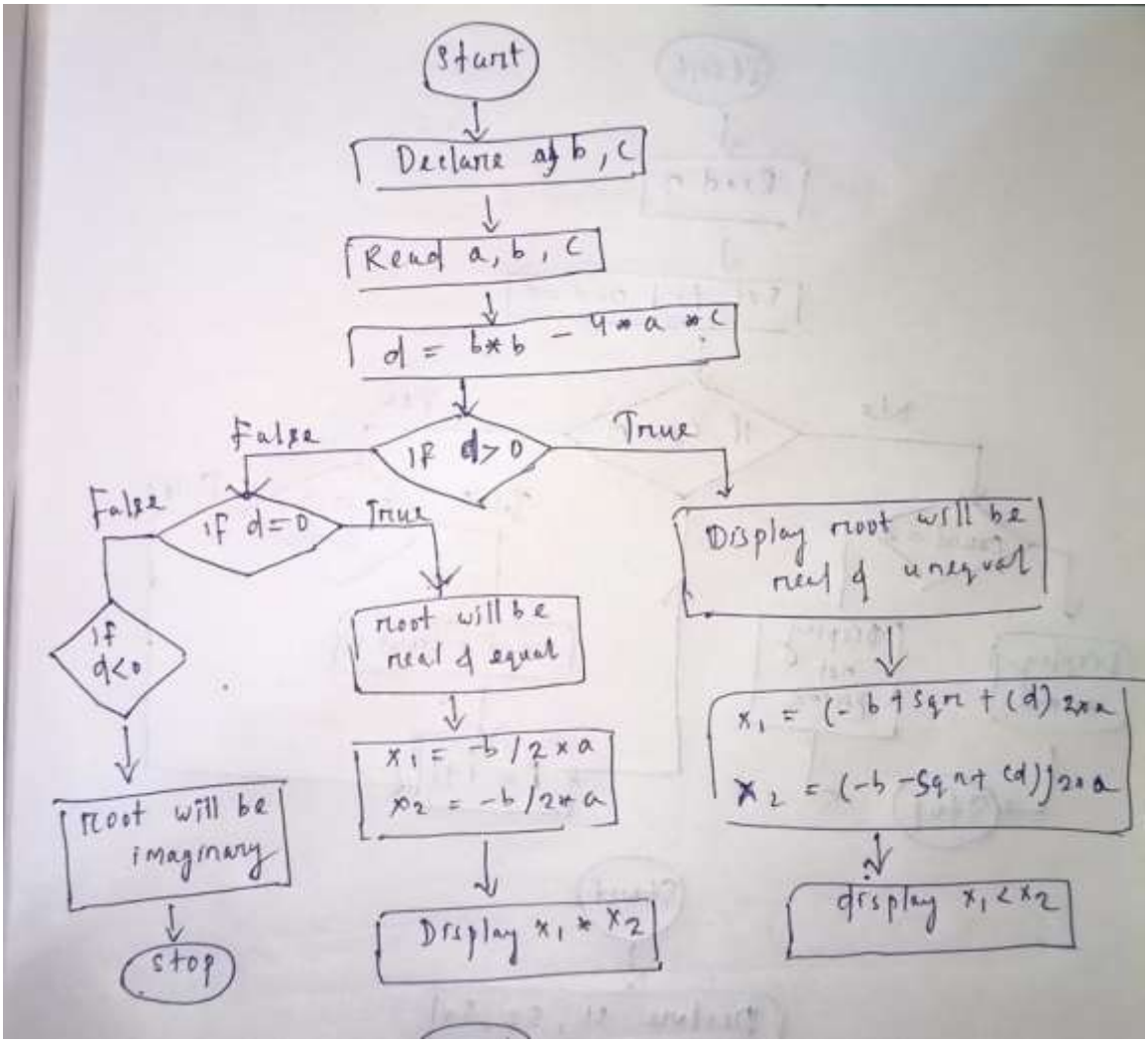
Q5)Find the roots of a quadratic equation ax2+bx+c=0?

ALGORITHM

step1:start
step2:declare a,b and c
step3:read the value a,b and c
step4:d=b*b-4*a*c
step5:if d>0
display root will be real and unequal
x1=(-b+sqrt(d))/2*a
x2=(-b-sqrt(d))/2*a
display x1 and x2
else
if d==0
display root will be real and equal
x1=-b/2*a
x2=-b/2*a
display x1 and x2
else
if d<0
display root will be imaginary

step6:stop

FLOWCHART



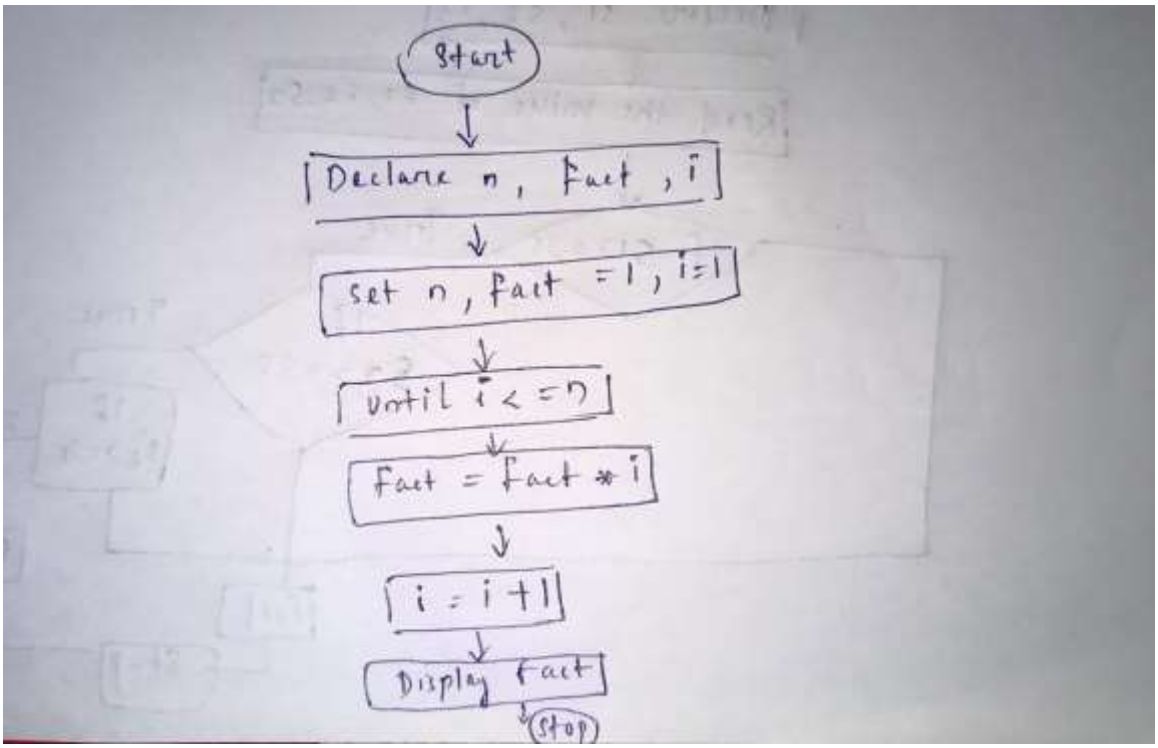
Q6) Find the factorial of a given number?

ALGORITHM

step1: start
step1: declare the value of n, fact=1,i=1
step1: read value of n
step2: until (i<=n)
step3: fact=fact*i
step4: i=i+1

step5: display fact
step6: stop

FLOWCHART

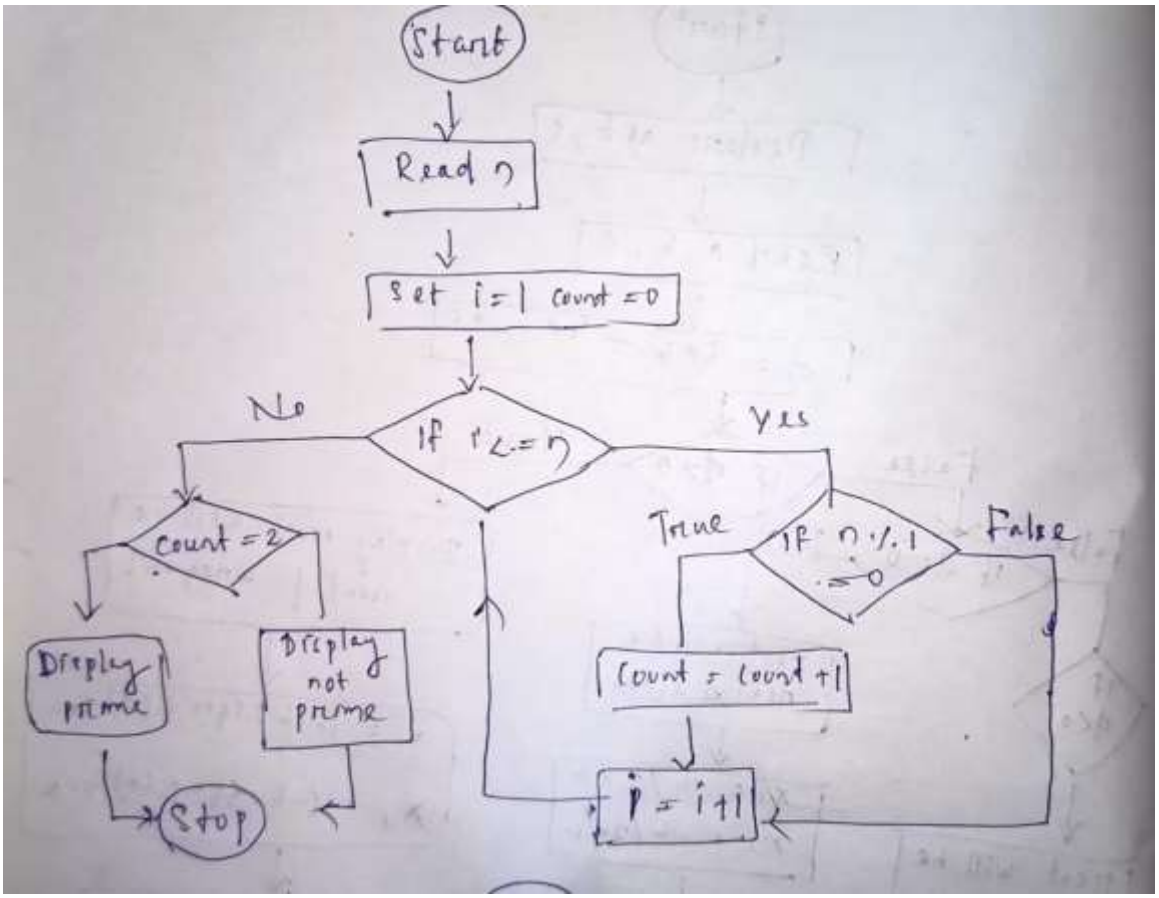


Q7)Find the number is prime or not ?

ALGORITHM

Step1:start
Step2:read n
Step3:set i=1,count=0
Step4:if(i<=n)
 If(n %i==0)
 count=count+1
 i+1
else
if(count==2)
display n is prime
else
display n is not prime
Step5:stop

FLOWCHART

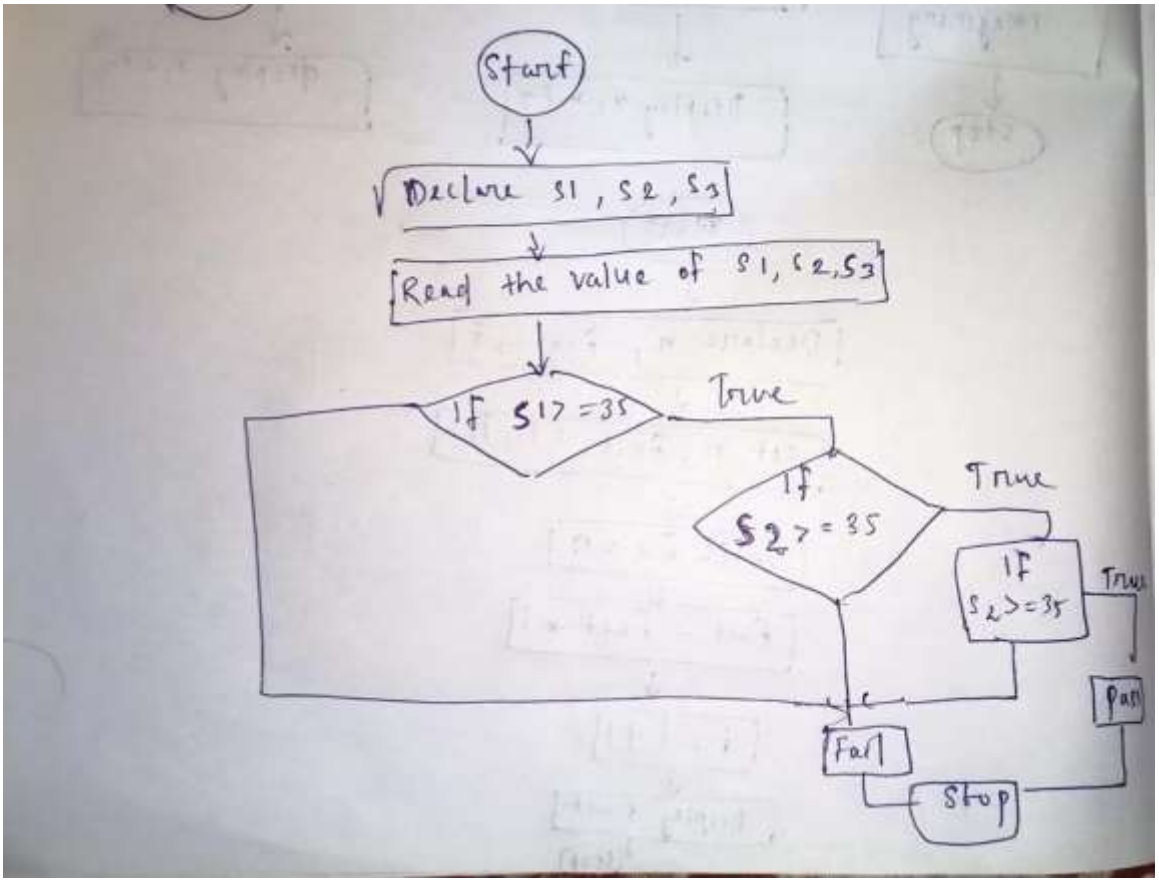


Q8) Get marks for 3 subject and declare the result .if the marks >=35 in all the
subject the student pass else fail?

ALGORITHM

Step1:start
Step2:declare s1,s2,s3
Step3:read the value of s1,s2,s3
Step4:if s1>=35
 if s2>=35
 if s3>=35
 display pass
else
 display false
step5:stop

FLOWCHART


Start
Declare S1, S2, S3
Read the value of S1, S2, S3
If S1 >= 35
True
If S2 >= 35
True
If S3 >= 35
True
Pass
Fail
Stop