SVKM's NMIMS

Mukesh Patel School of Technology Management and Engineering, Mumbai

Programming for Problem Solving (Exp 1-1)

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Task 1:

Algorithm:

Step 1: Start

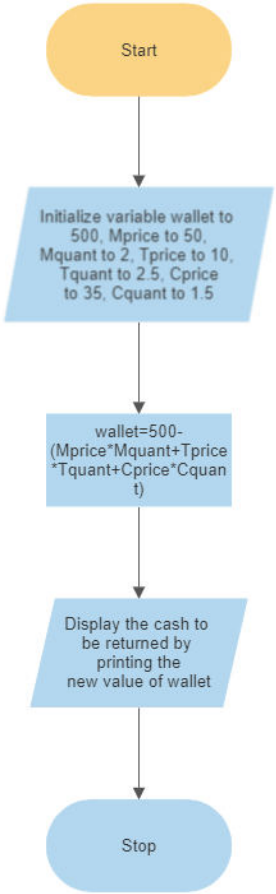
Step 2: Initialize variable wallet to 500, Mprice to 50, Mquant to 2, Tprice to 10, Tquant to 2.5, Cprice to 35, Cquant to 1.5

Step 3: wallet=500-(Mprice*Mquant+Tprice*Tquant+Cprice*Cquant)

Step 4: Display the cash to be returned by printing the new value of wallet

Step 5: Stop

Flowchart:



Task 2:

Algorithm:

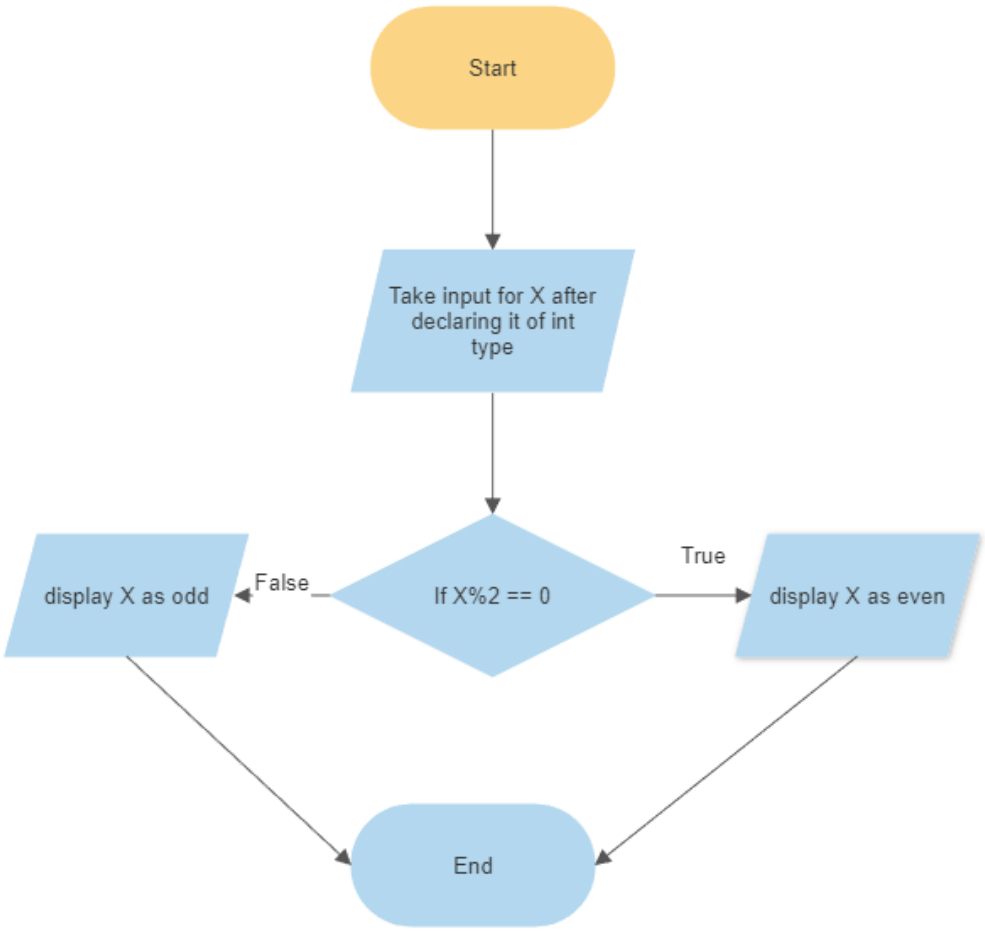
Step 1: Start

Step 2: Take input for X after declaring it of int Type

Step 3: If X%2 is equal to 0, display X as even, else display as odd

Step 4: Stop

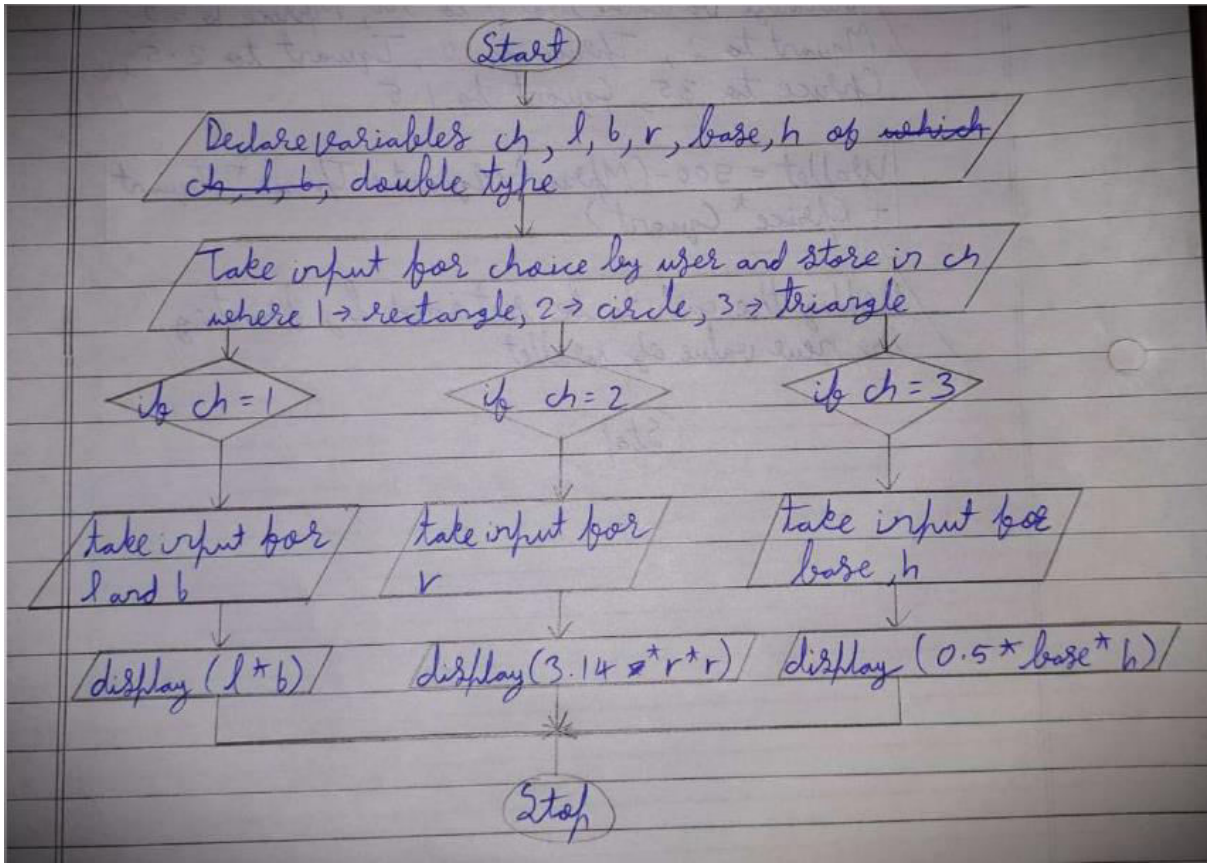
Flowchart:



Task 3:

Variables used ch,l,b,r,base,h of double type

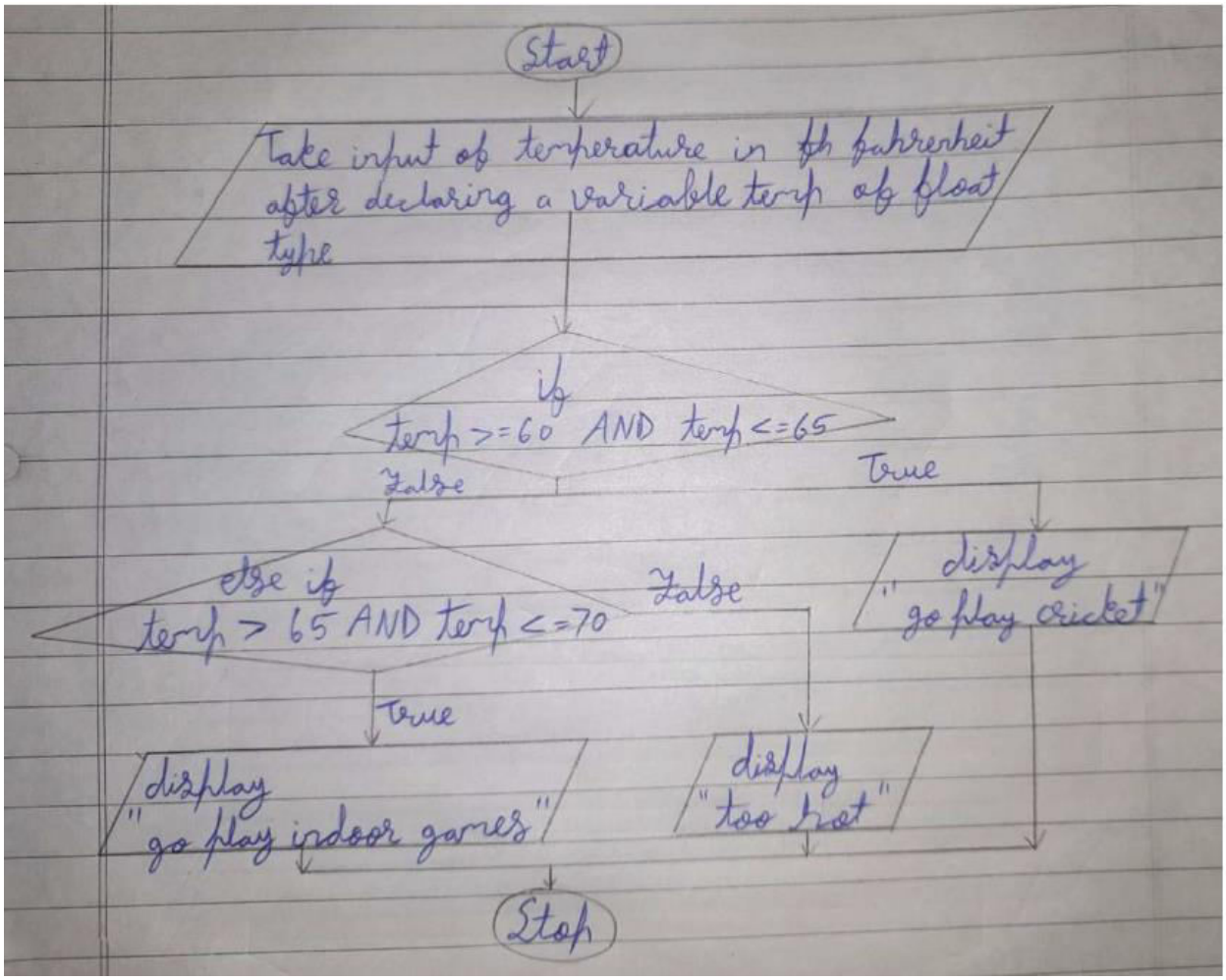
Flowchart:



Dry run: for radius 6 units, area of circle=3.14*3.14*6=59.1576 sq units

Task 4:

Flowchart:



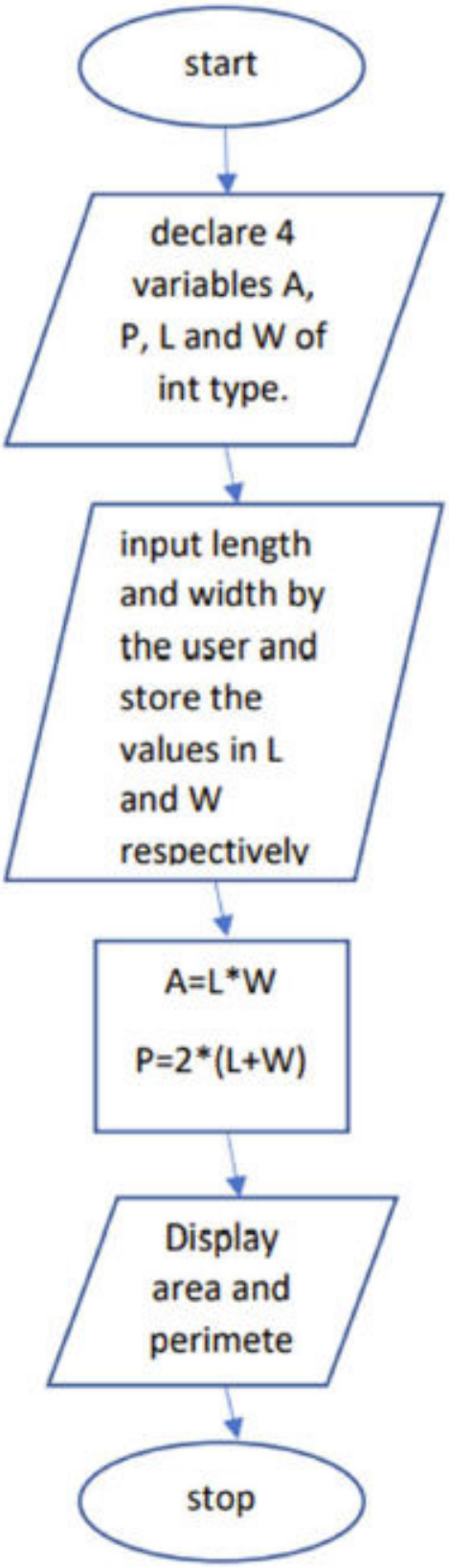
Homework Questions:

1.

Algorithm:

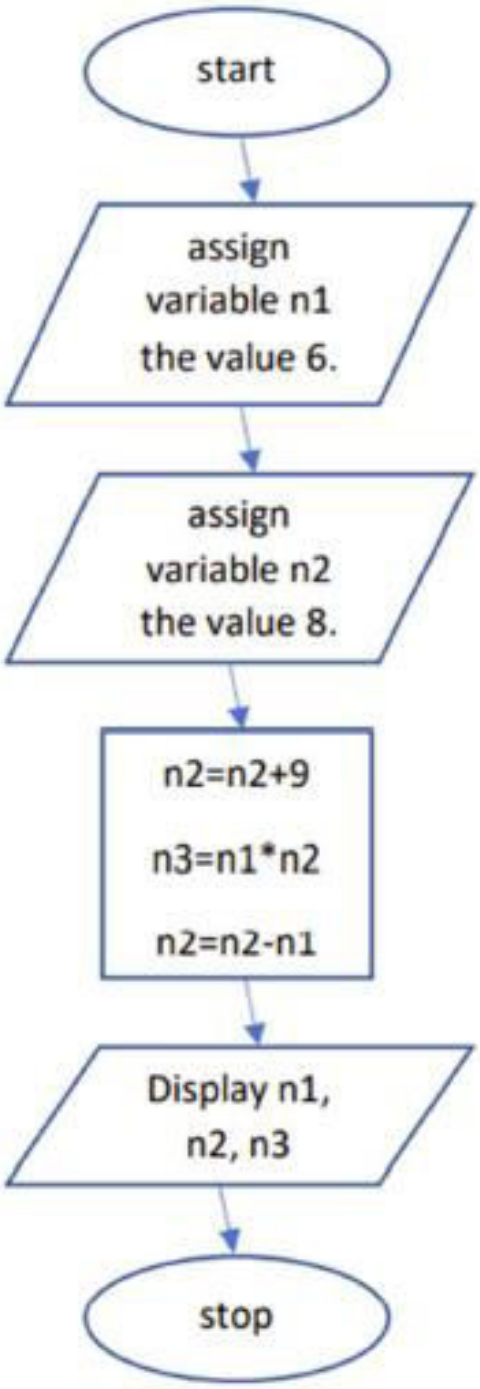
step1	start
step2	declare 4 variables A, P, L and W of int type.
step3	input length and width by the user and store the values in L and W respectively.
step4	A=L*W P=2*(L+W)
step5	display area and perimeter
step6	stop

Flowchart:


start
declare 4 variables A, P, L and W of int type.
input length and width by the user and store the values in L and W respectivelv
A=L*W
P=2*(L+W)
Display area and perimete
stop

2.

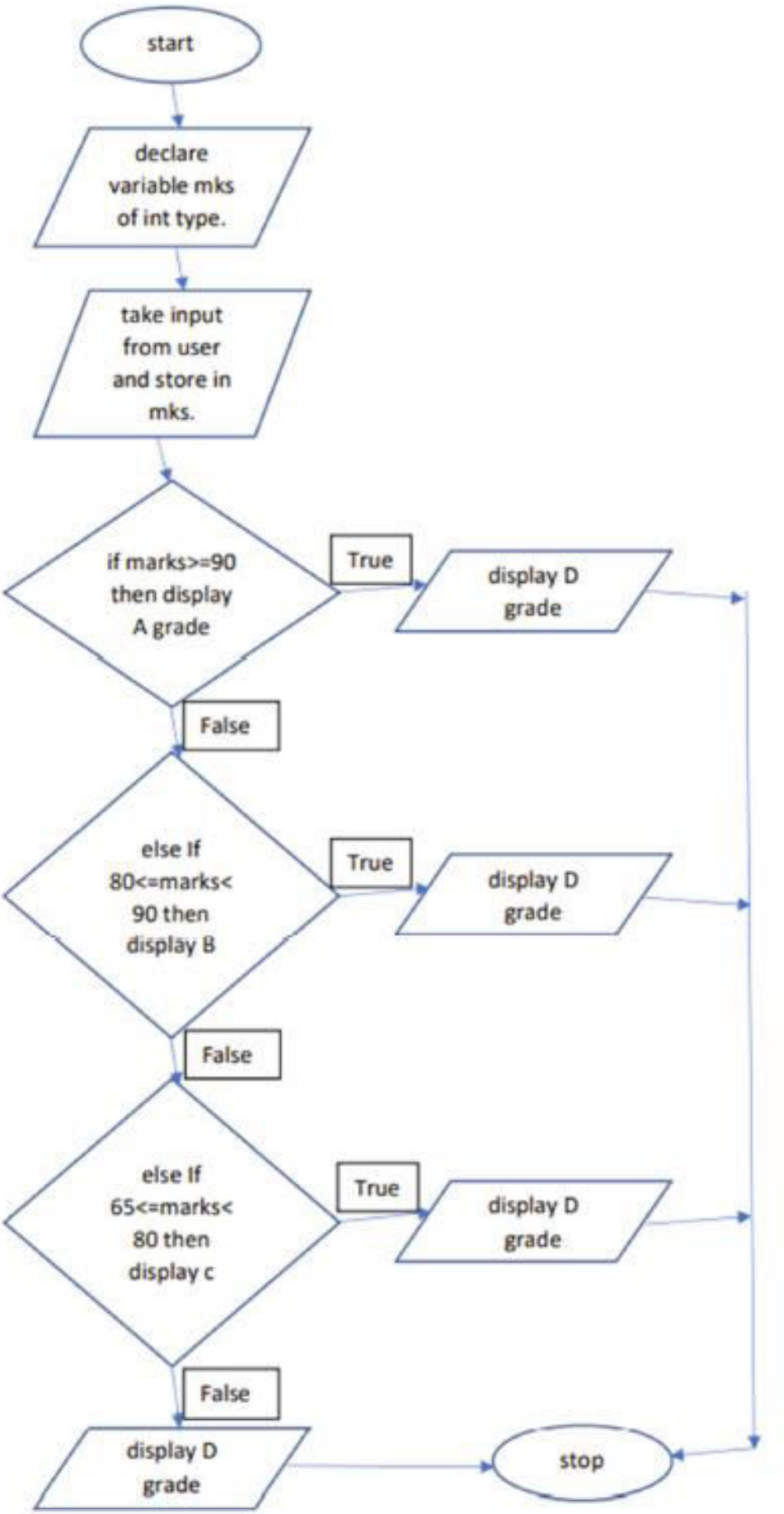
Flowchart:


start
assign
variable n1
the value 6.
assign
variable n2
the value 8.
n2=n2+9
n3=n1*n2
n2=n2-n1
Display n1,
n2, n3
stop

3.

Algorithm:

step1	start
step2	declare variable mks of int type
step3	take input from user and store it in mks
step4	if marks>=90 then display A grade
step5	else If 80<=marks<90 then display B grade
step6	else If 65<=marks<80 then display B grade
step7	else display D grade
step8	stop


start
declare variable mks of int type.
take input from user and store in mks.
if marks>=90 then display A grade
True
display D grade
False
else If 80<=marks< 90 then display B
True
display D grade
False
else If 65<=marks< 80 then display c
True
display D grade
False
display D grade
stop