

Brac University
Department of Electrical & Electronic Engineering
Semester Summer 2025

Course Number: EEE103IL

Course Title : Computer Programming Laboratory

Section:06



Lab Report

Experiment no.

1

Name of the experiment:

Introduction to Algorithm and Flowcharts

Prepared by:

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Ans. to the ques. no. 1

Algorithm:

Step 1 : Start

Step 2 : Input marks

Step 3 : If marks < 60, then

 Print "F" ; Go to step 8

Step 4 : Else if marks ≤ 69, then

 Print "D" ; Go to step 8

Step 5 : Else^{if} marks ≤ 79 ; then

 Print "C" ; Go to step 8

Step 6 : Else if marks ≤ 89 ; then

 Print "B" ; Go to step 8

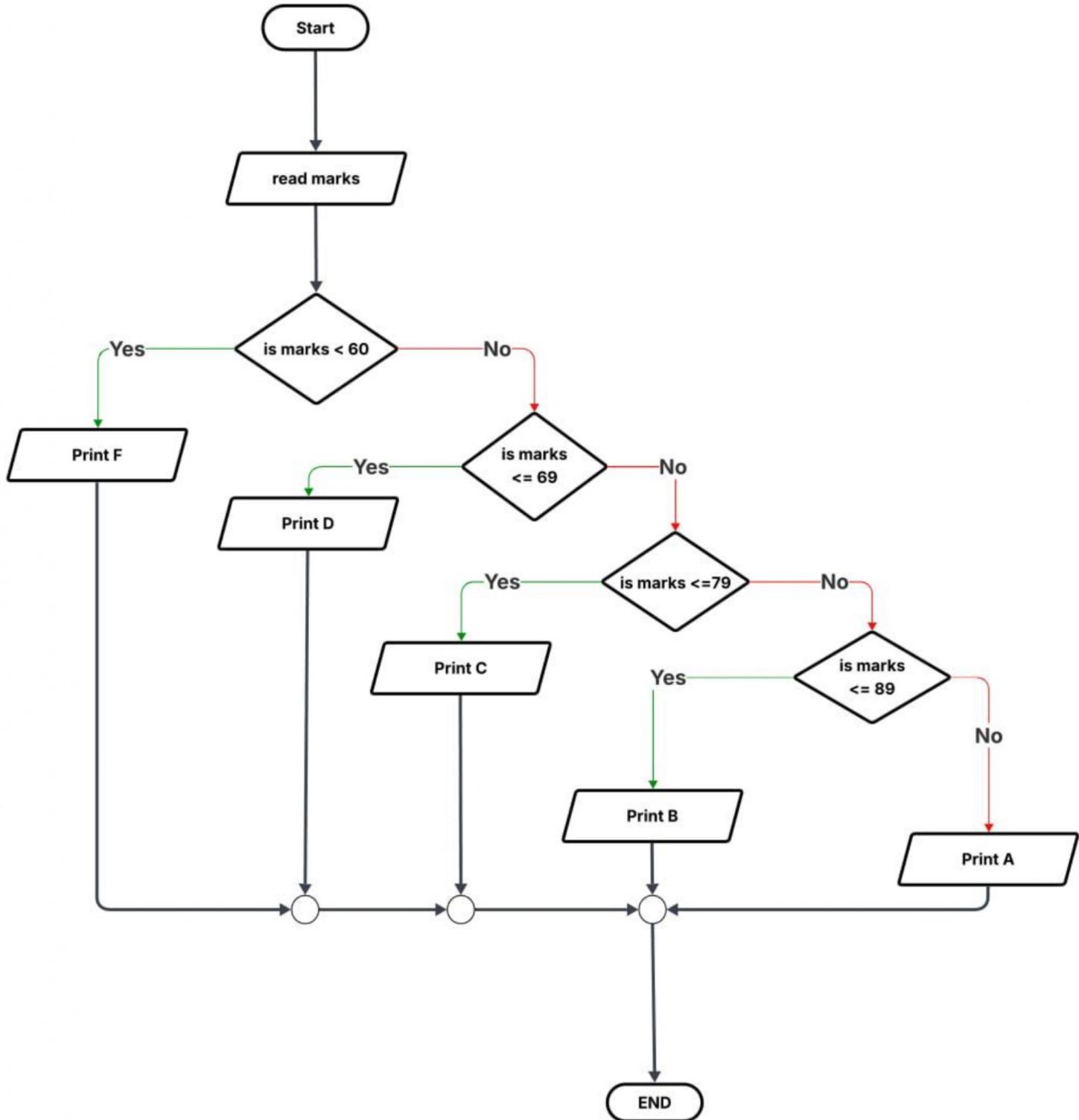
Step 7 : Else print "A"

Step 8 : End

Answer to the ques No.

1

Flowchart 1:



Ans. to the ques. no. 2.

Algorithm:

Step 1 : Start

Step 2 : input r

Step 3 : Circumference, $C = 2 * 3.1416 * r$

Area

$$A = 3.1416 * r * r$$

Step 4 : Print C and Print A

Step 5 : if "A < 50", Yes, then Print "too small", then
go to step 7.

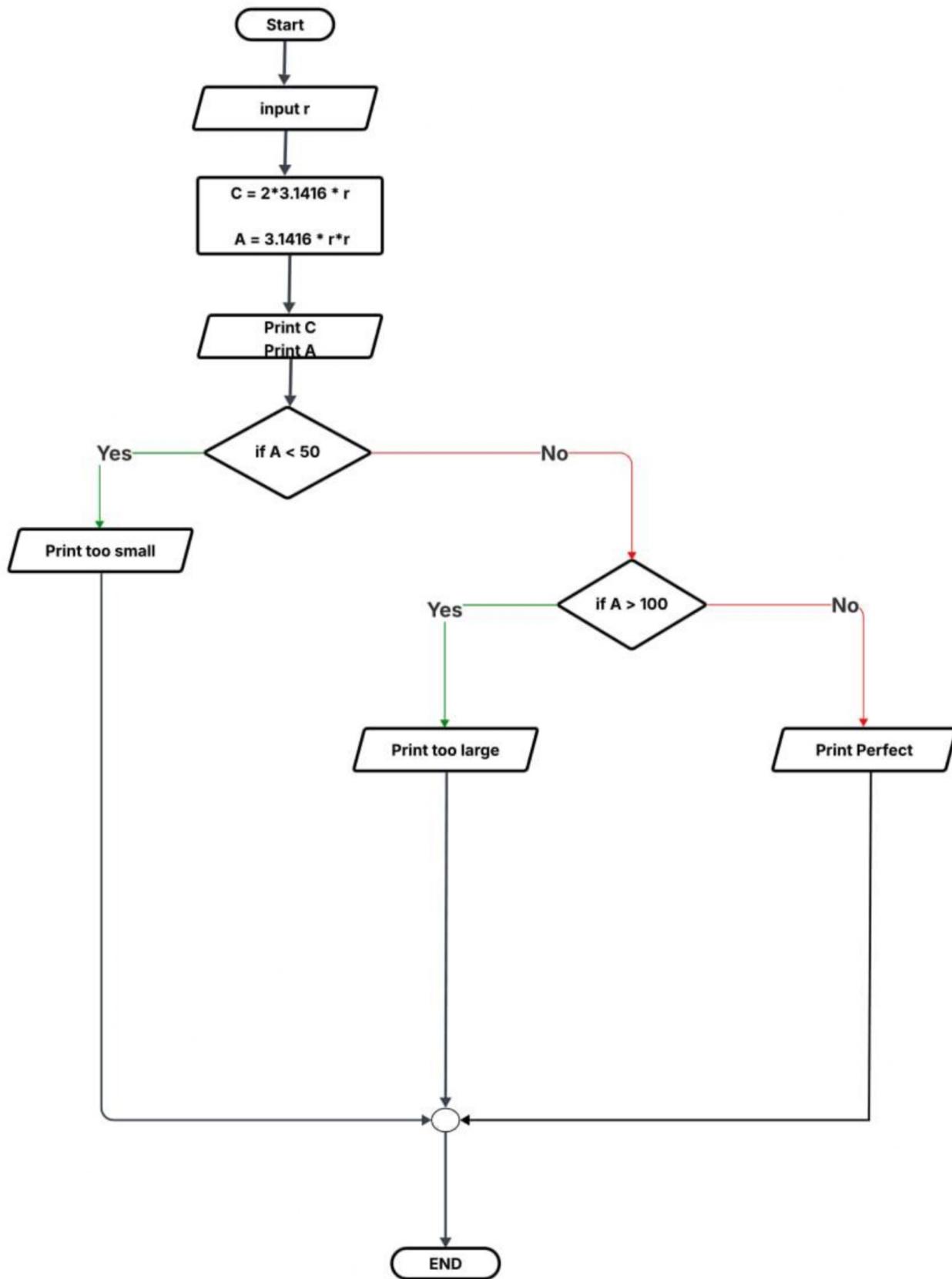
else, go to step 6.

Step 6 : If "A > 100", Yes, then print "too large"
else, Print perfect

Step 7 : End

Answer to the ques No. 2

Flowchart 2 :



Ans. to the ques. no. 3

Algorithm:-

: mathodA

Step 1 : Start

first : L qst2

Step 2 : Input a

a triai : S qst2

Step 3 : if $a \cdot 1.2 = 0$, then print even
else, print odd

Step 4 : Input b

Step 5 : if $b \cdot 1.2 = 0$, then print even
else, print odd

Step 6 : Input c

Step 7 : if $c \cdot 1.2 = 0$, then print even
else, print odd

Step 8 : Input d

Step 9 : if $d \cdot 1.2 = 0$, then print even

else print odd or even

Step 10 : Input e

Step 11 : if $e \% 2 == 0$, then print even
else print odd

Step 12 : $s = a + b + c + d + e$

Step 13 : $avg = 3 * 0.2$

Step 14 : print avg

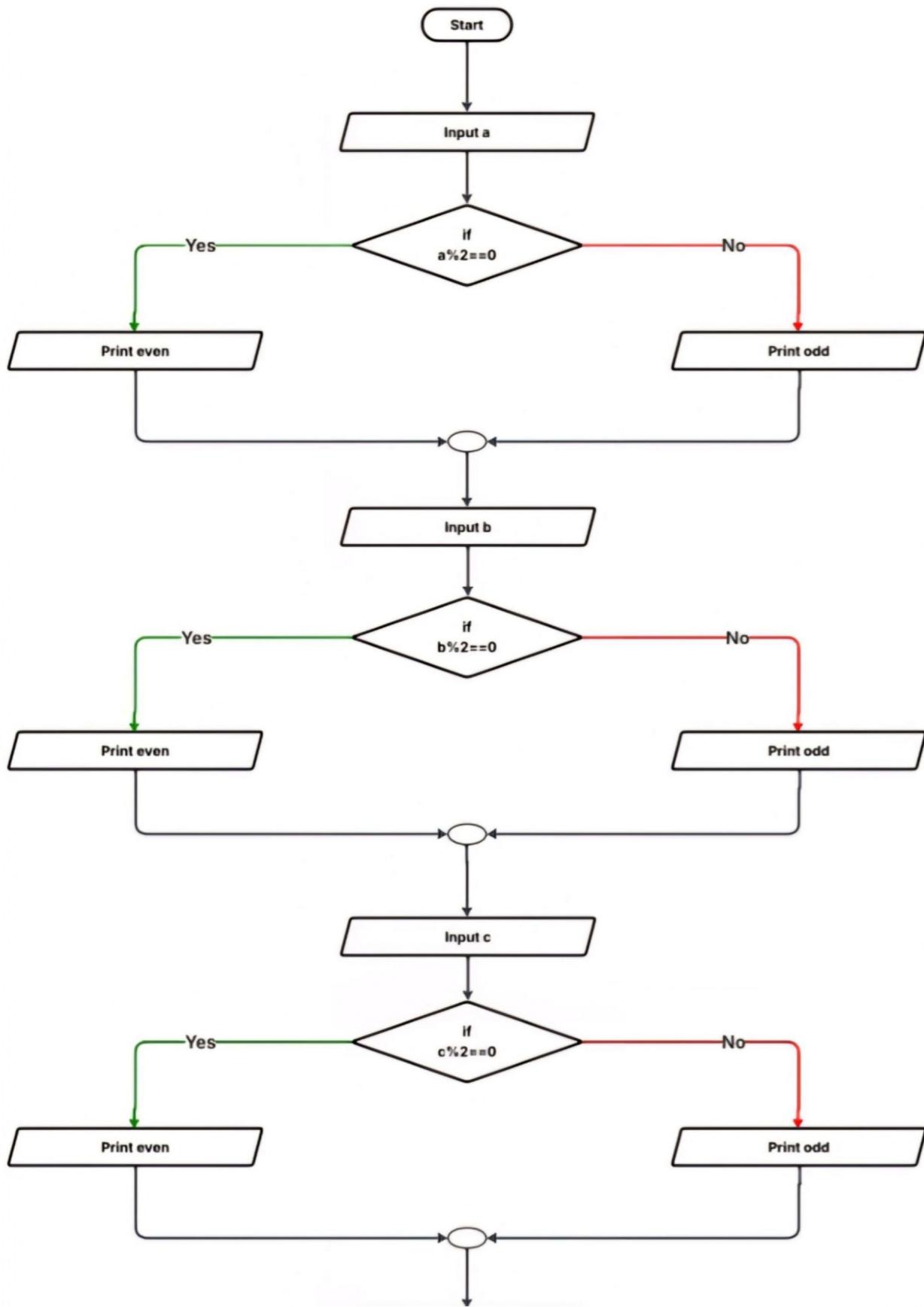
Step 15 : End

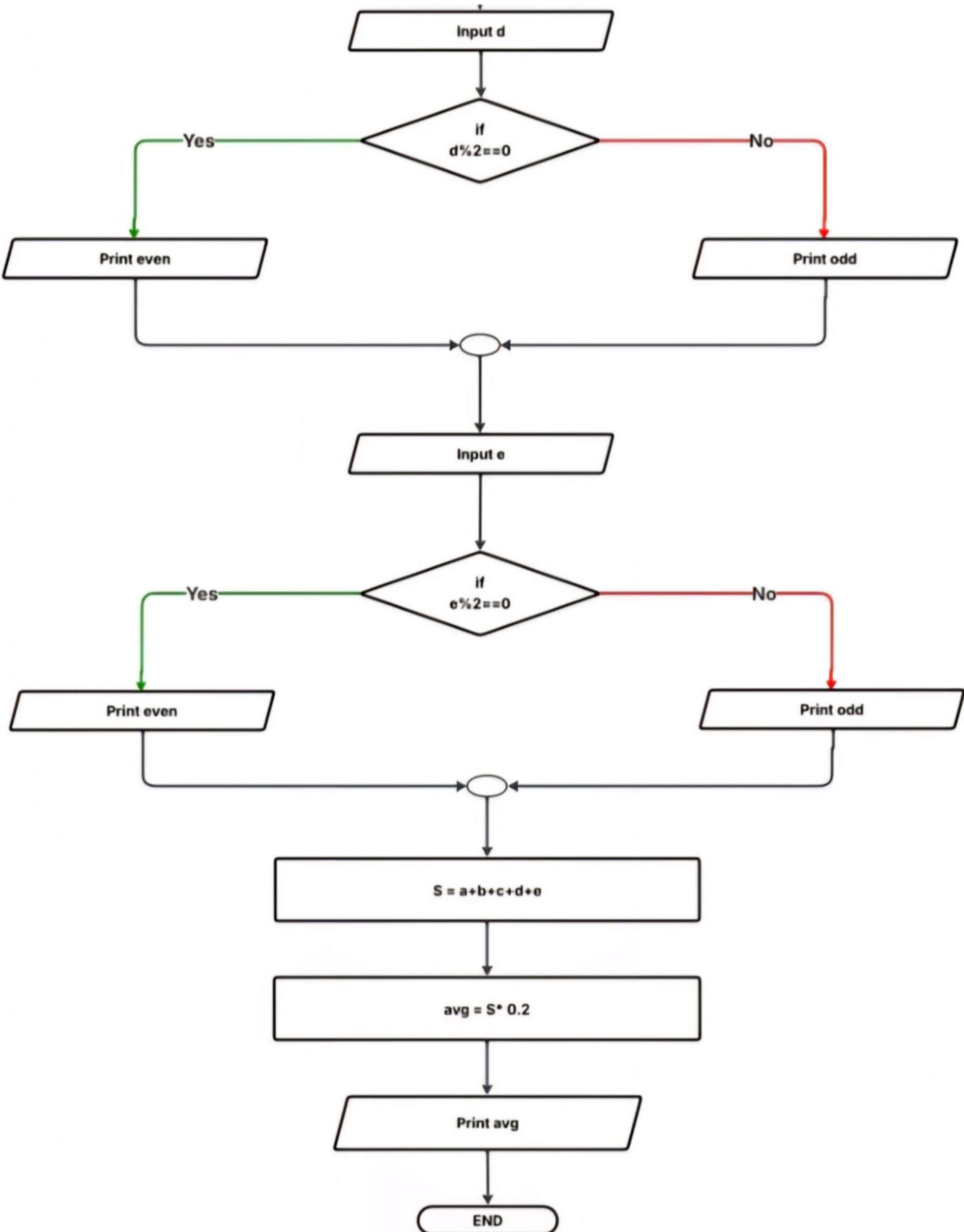
else of loop until

else of loop

Answer To the question No. 3

FLOWCHART 3 :





Ans. to the ques. no. 4

→ Right of 9st2

Algorithm :-

Step 1 : Start

Step 2 : input item1, item2, item3

Step 3 : Sub total, $S = \text{item1} + \text{item2}$

Step 4 : $S = S + 0.10 * S$ PL

Step 5 : if $S > 500$, yes, then $qs = S - 500$
then go to step 6.

else, go to step 6

Step 6 : Print S

Step 7 : End

Answer To the question No. 4

FLOWCHART 4 :

