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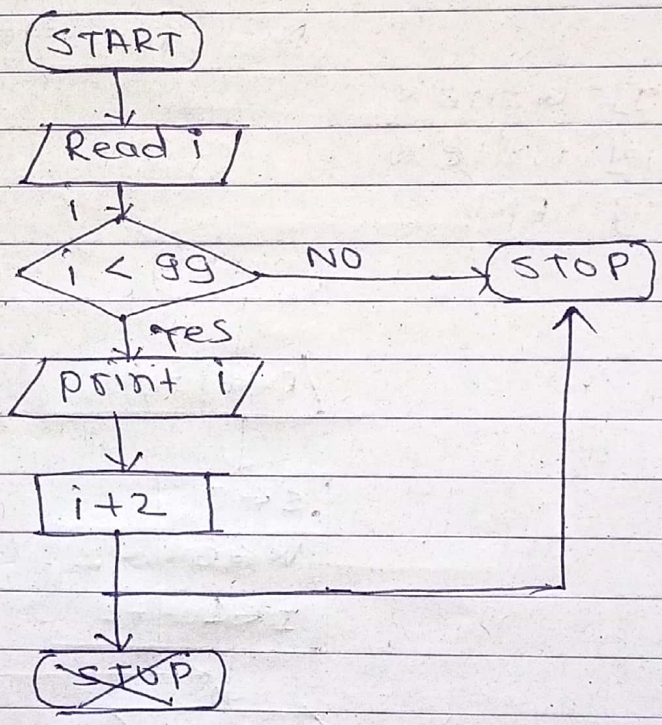
Assingment no -02

Q.1. write the Algorithm and draw flowchart for the following

a] print even numbers between 0 & 99.

⟹ 1] START
2] Read i=0
3] i < 99
4] print i+2
5] print i
6] goto steps 3
7] END



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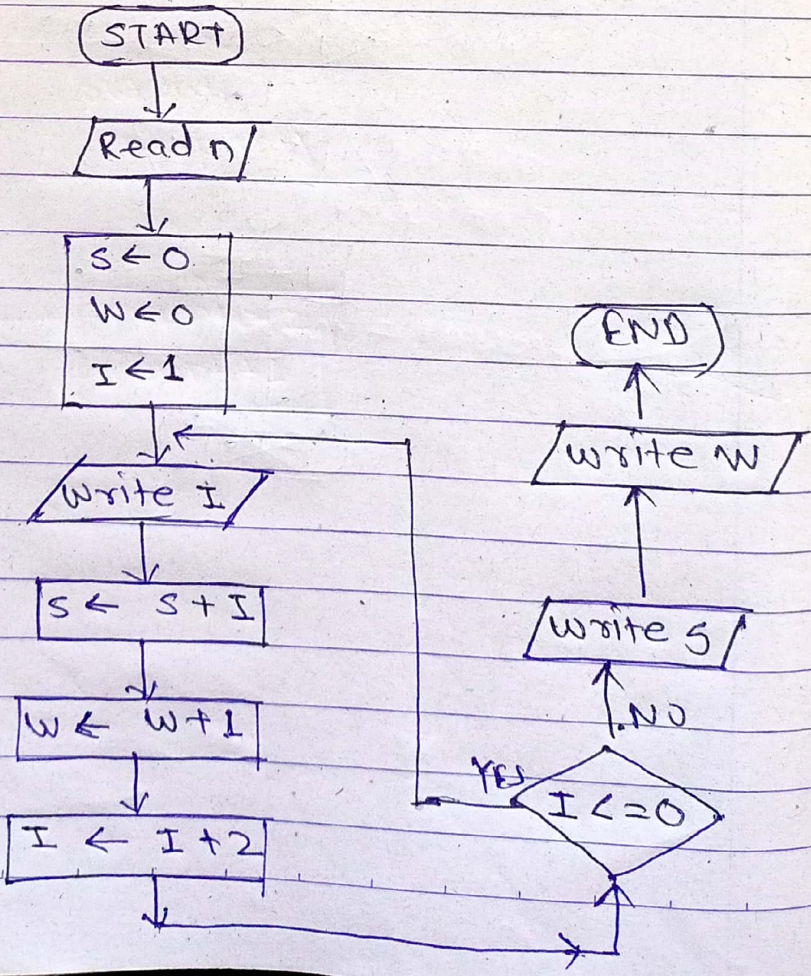
b] Print odd numbers less than a given number. It should also calculate their sum & count

⇒ 1] START
2] Read n
3] S ← 0
W ← 0
I ← 1
4] write I
5] S ← S+I
6] W ← W+1
7] I ← I+2
8] I <= n Yes goto step [4]
No goto step [9]
9] write S
10] write W
11] END



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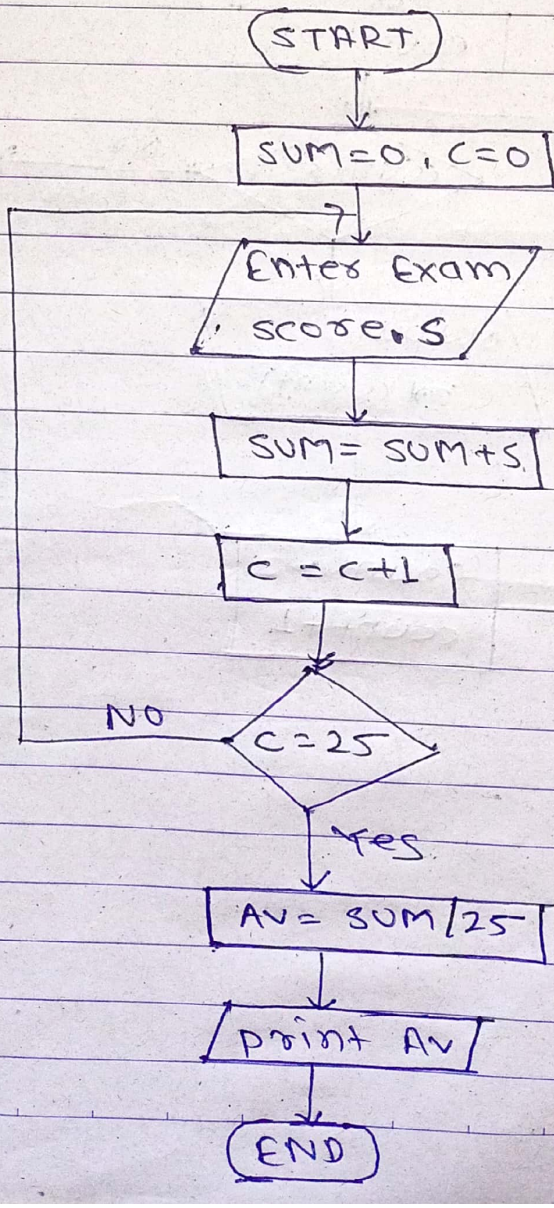
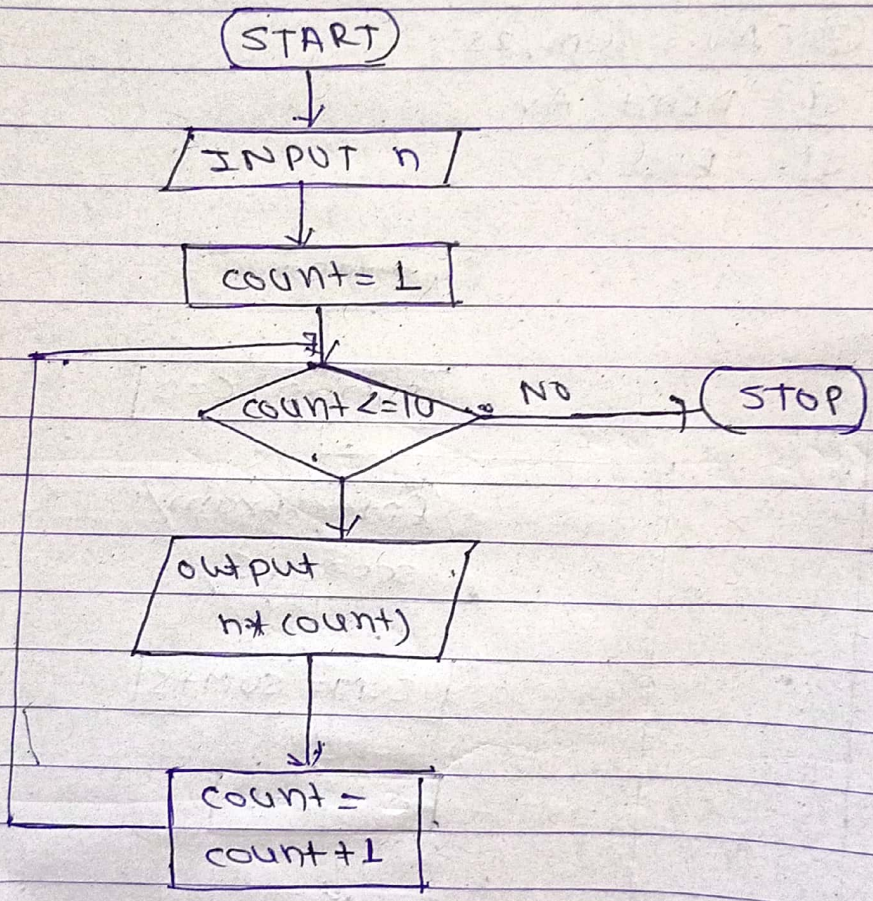
C] calculate the avarage of 25 test score

1] START
2] SUM = 20, C=0
3] Enter Exam scores. S
4] SUM = SUM+S
5] C=C+1
6] c=25 if Yes goto - (7)
if NO goto - (3)
(7) Av = SUM/25
8] Print Av
9] END



d] print table of any number N

⇒ 1] START
2] Input n
3] count = 1
4] count <= 10 Yes goto (5), if NO goto (7)
5] output (n * count)
6] count = count + 1 goto step (4)
(7) STOP



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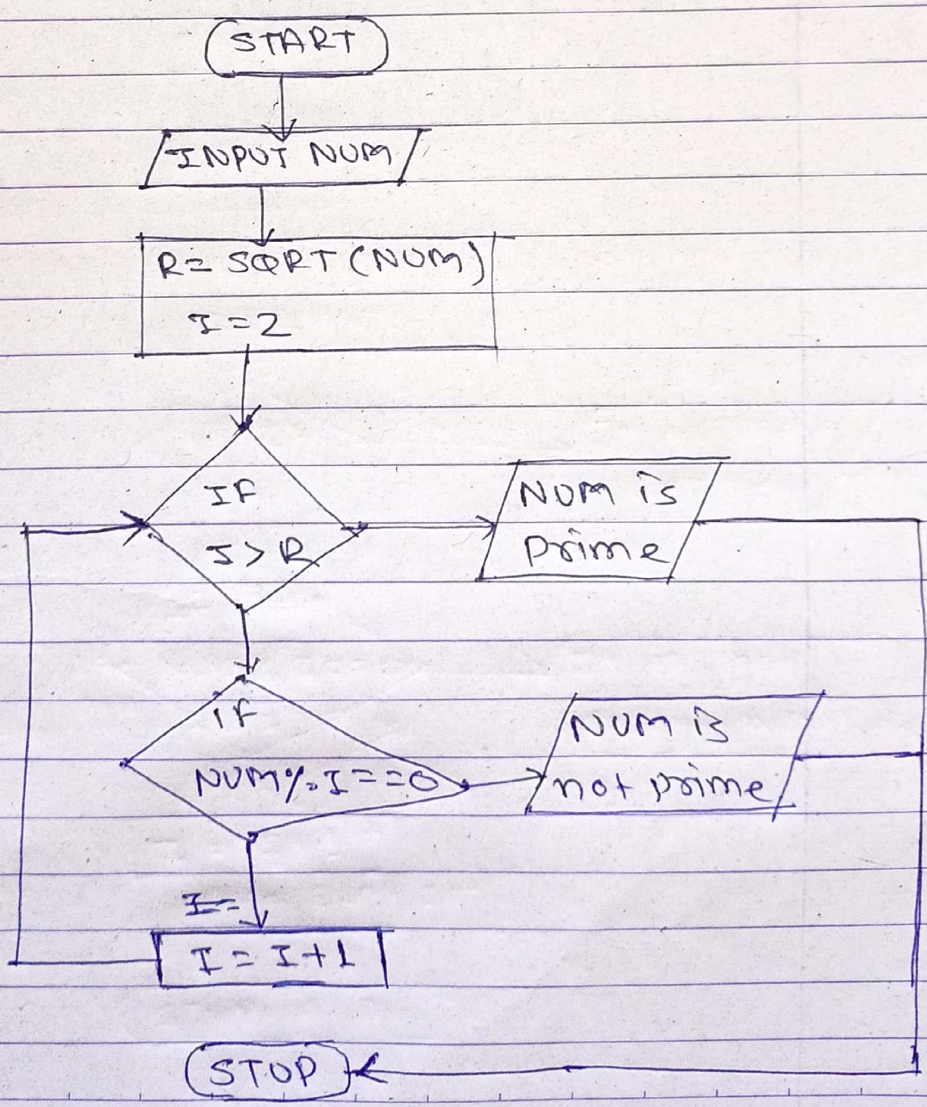
e] check the given number is prime or not

⟹ 1] START
2] INPUT NUM
3] R = SQRT(NUM)
4] I = 2
5] IF (I>R) Then write NUM is prime numbe
STOP (END IF)
6] IF (NUM % I == 0) Then write NUM is not prime number
STOP , END IF
7] I = I + 1
8] goto step 5



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f] print odd number backward from 99

⇒ 1] START
2] N = 99
3] print odd Numbers 99 to 1
4] N >= 1 Yes then goto [5]
No then goto [7]
5] print N
6] N = N + 2 goto [4]
7] STOP