

Assignment 2

Q.) Print even numbers between 0 to 99

Algorithm

Start

Initialize the variable i to 1

while $i \leq 99$

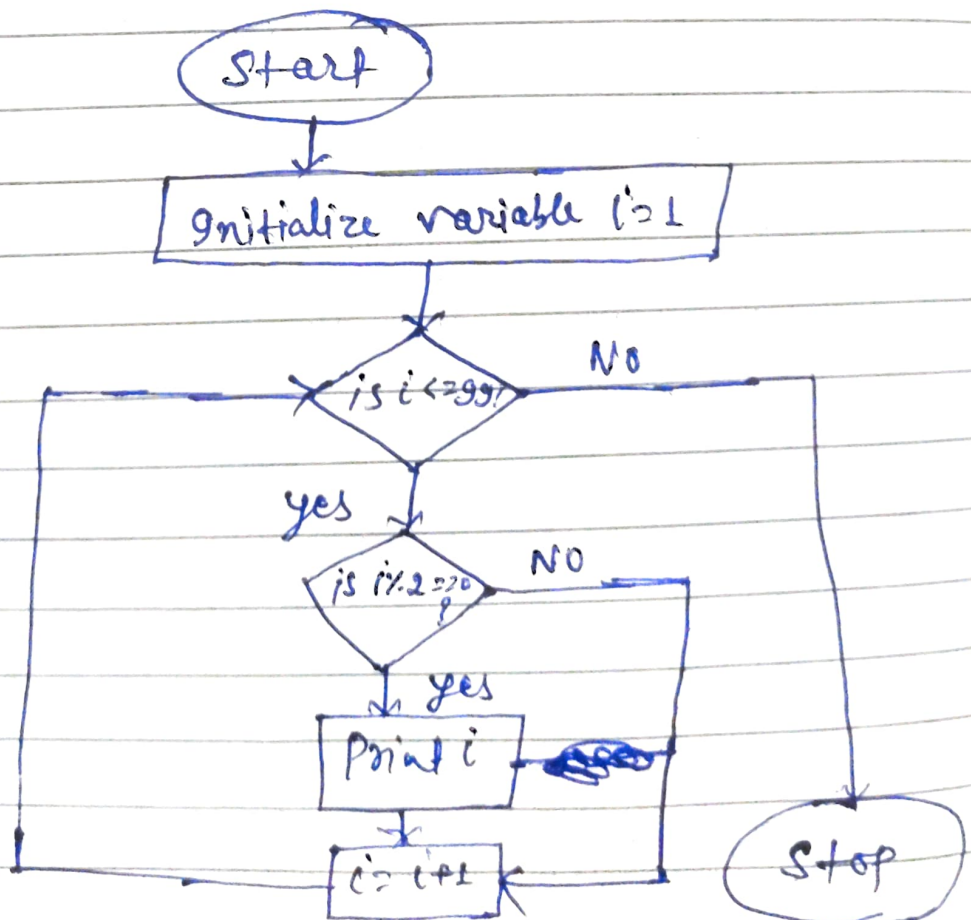
if $i \% 2 == 0$

Print the number

Increment value of i

Stop

Flow chart



b) Print odd number less than a given number. It should be also calculate their sum and count.

given number 0 to 99

Start

~~initialize the variable i to 0, sum = 0~~
~~while i < 99~~
~~if i % 2 != 0~~
~~then print i~~
~~sum = sum + i~~
~~print sum~~
~~stop~~

Start

Initialize k = 1

sum = 0

Print k

sum = sum + 1

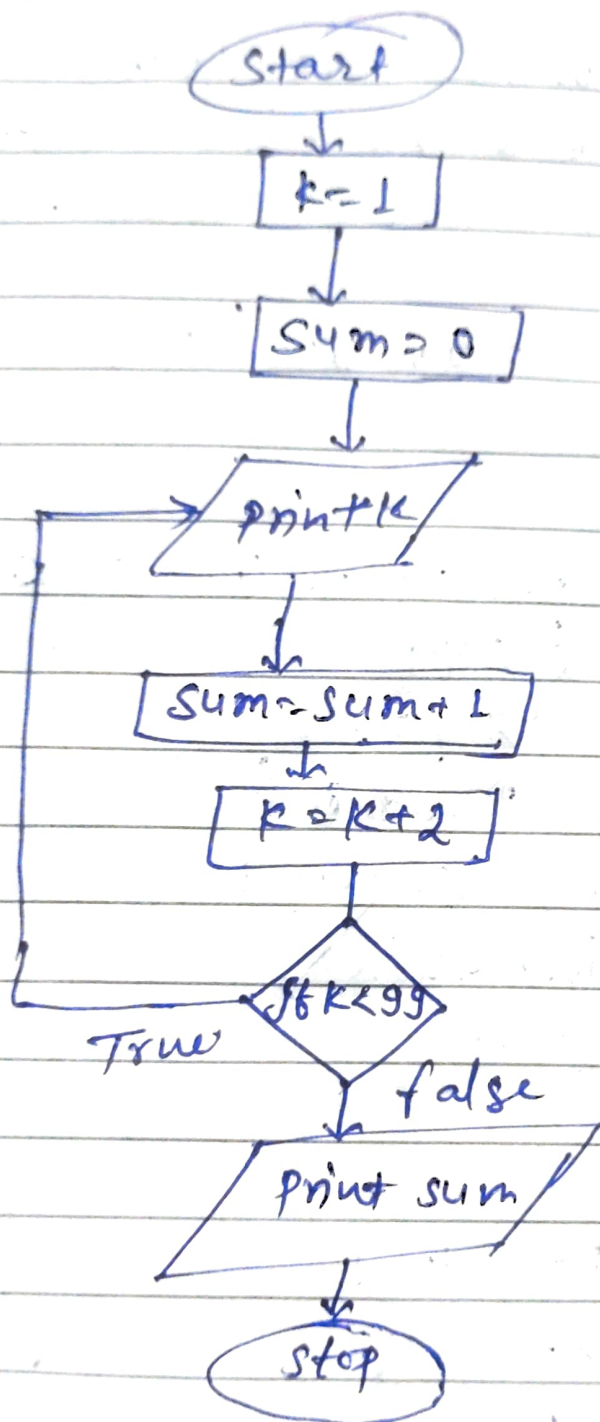
k = k + 2

if k < 99

print sum

stop

flow chart



① Calculate the average of 25 test scores.

Start

Initialize $I = 1$, $N = 25$

$Sum = 0$

Get I th exam score X

$Sum = Sum + X$

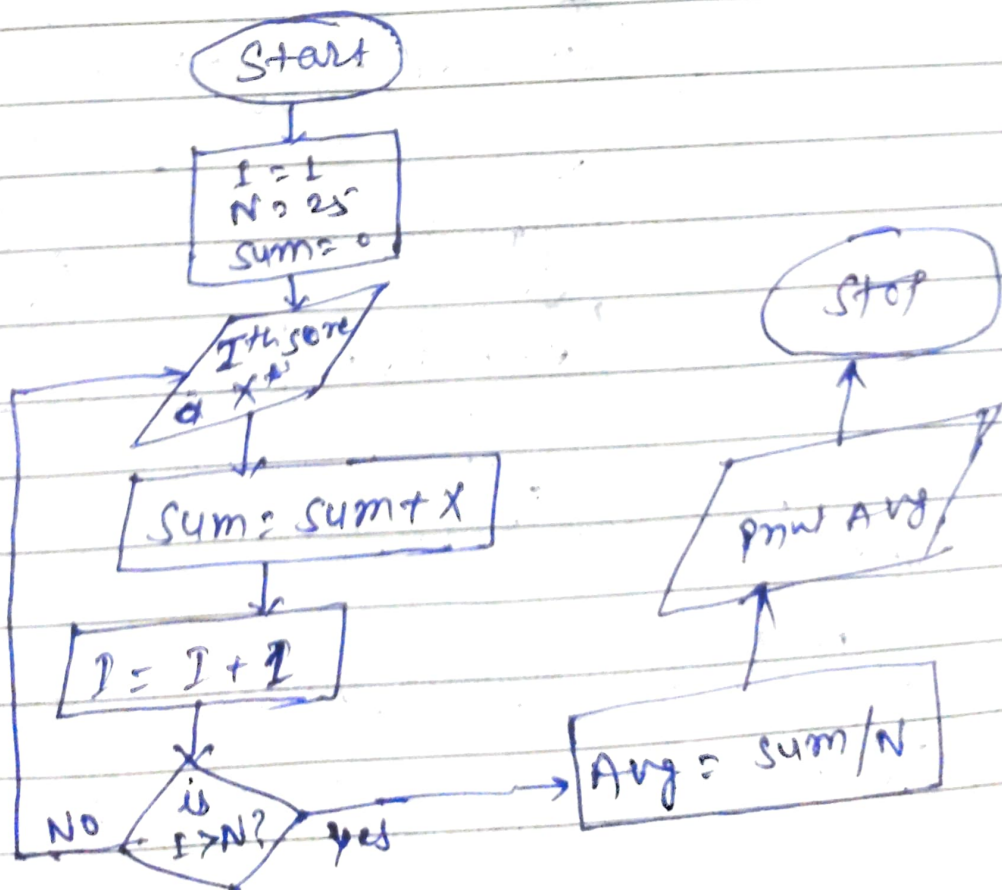
$I = I + 1$

$I > N$

$Avg = Sum / N$

Print Avg

Stop



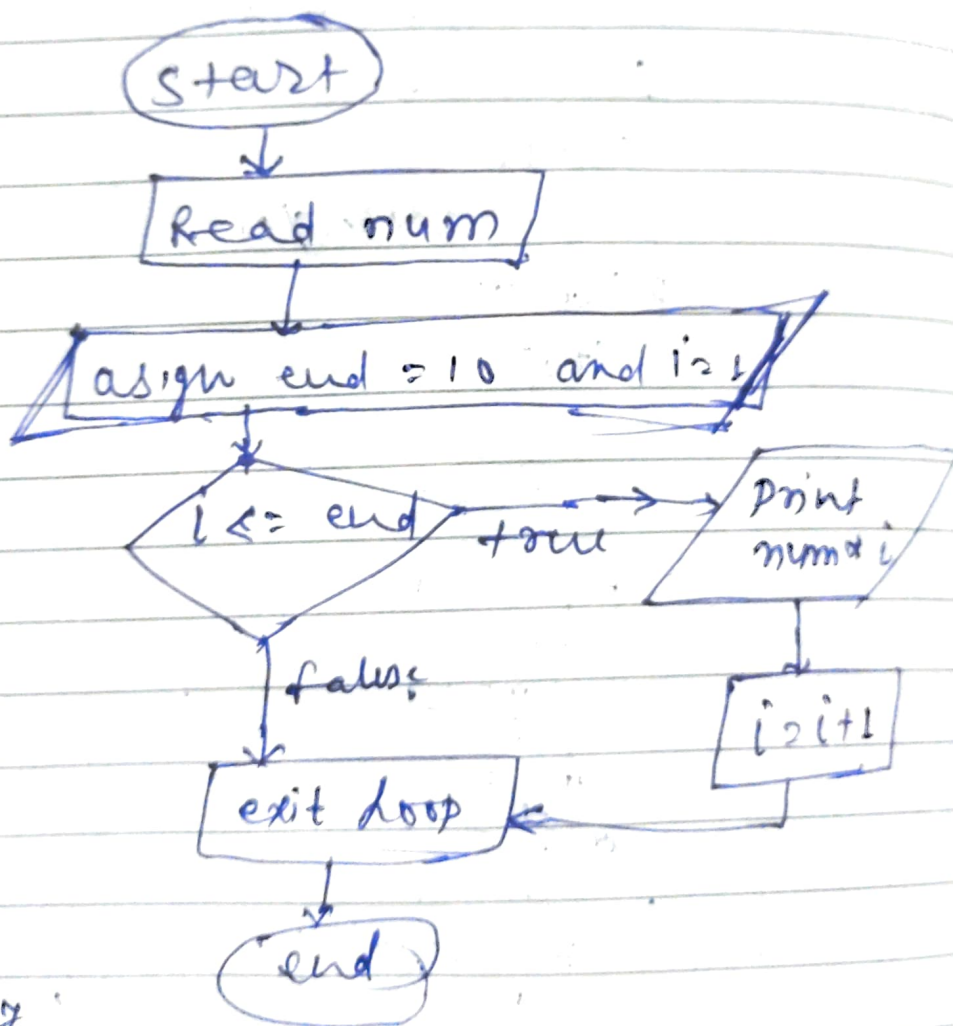
d) Print table of any number N (say)

step 1: Input the number

end = 10

Repeat from i = 1 to end

Display the table values in the
~~given~~ ~~out~~ (num * i = num)



Input = 7

output

7 * 1 = 7	7 * 3 = 21	7 * 5 = 35	7 * 7 = 49	7 * 9 = 63
7 * 2 = 14	7 * 4 = 28	7 * 6 = 42	7 * 8 = 56	7 * 10 = 70

⑥ check if the given number is prime or not.

Algorithm

Input N & M

while ($N < M$)

$i = 2$

while ($i < N$)

if $N \% i == 0$

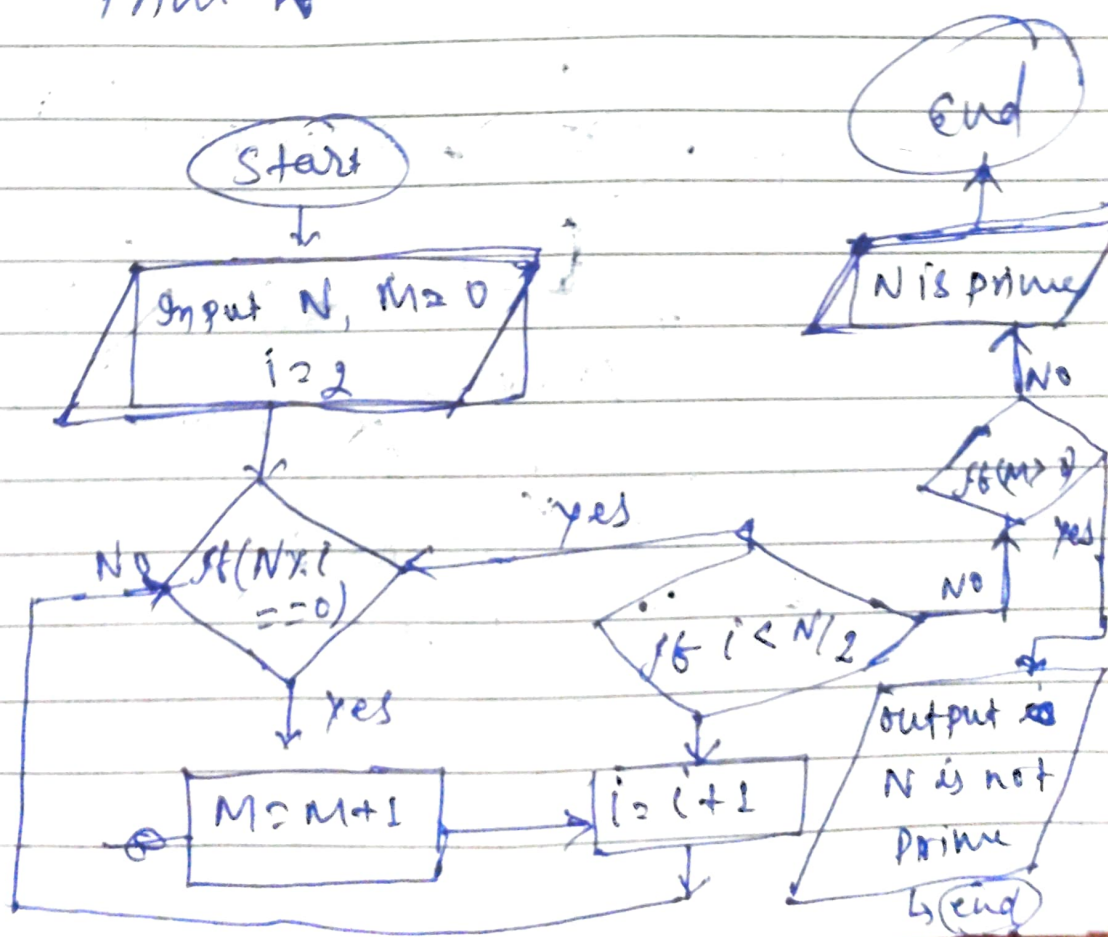
$M = M + 1$

$i = i + 1$

while $i < N/2$

if $M > 0$

Print N



④ Print odd number in backward from 99 to 1

Start

Initialize $N = 98$

while $N \geq 1$

Print N

Subtract 2 from N

End

