1. Write the Algorithm and draw the flowcharts for the following :
a) Find the average of three numbers a, b and c.
ALGORITHM
Step1: start
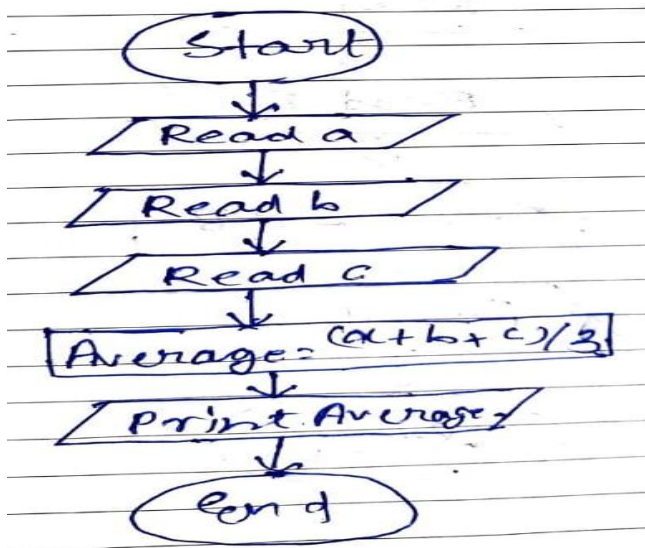Step2: read first number a
Step3: read second number b
Step4: read third number c
Step5: average=(a+b+c)/3
Step6: print average
Step7: stop

FLOWCHART

b) Find the area of a rectangle whose length and breadth are given.
ALGORITHM
Step1: start
Step2: read length as L
Step3: read breadth as B
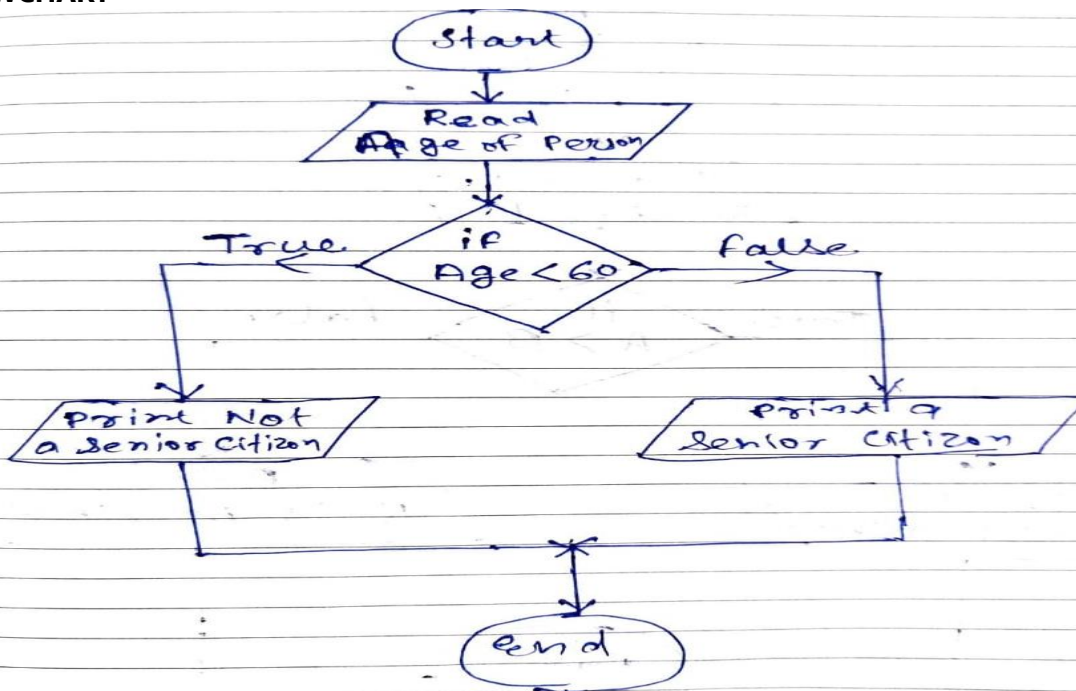Step4: area=L*B
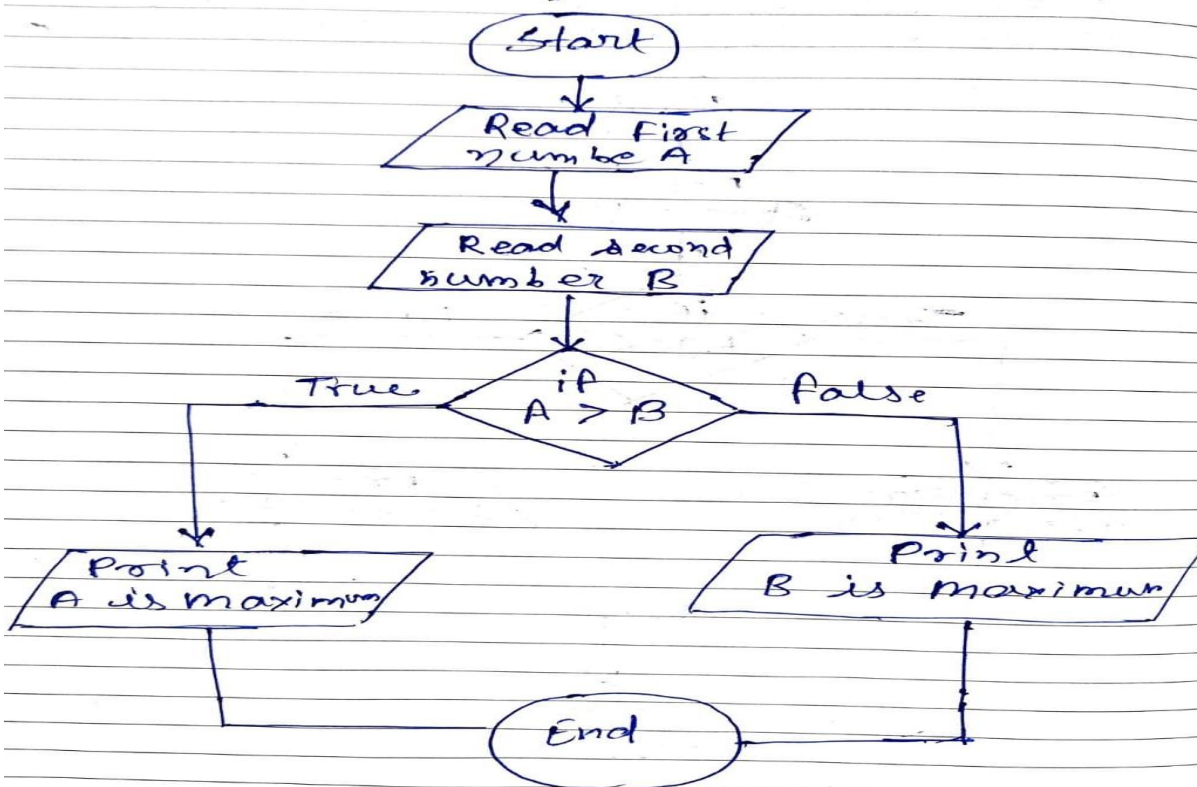Step5: print area
Step6: stop
FLOWCHART

2. Draw the flowcharts for the following :

a) Read age of a person. If age less than 60 then print "Not a senior citizen" otherwise print "Senior Citizen".
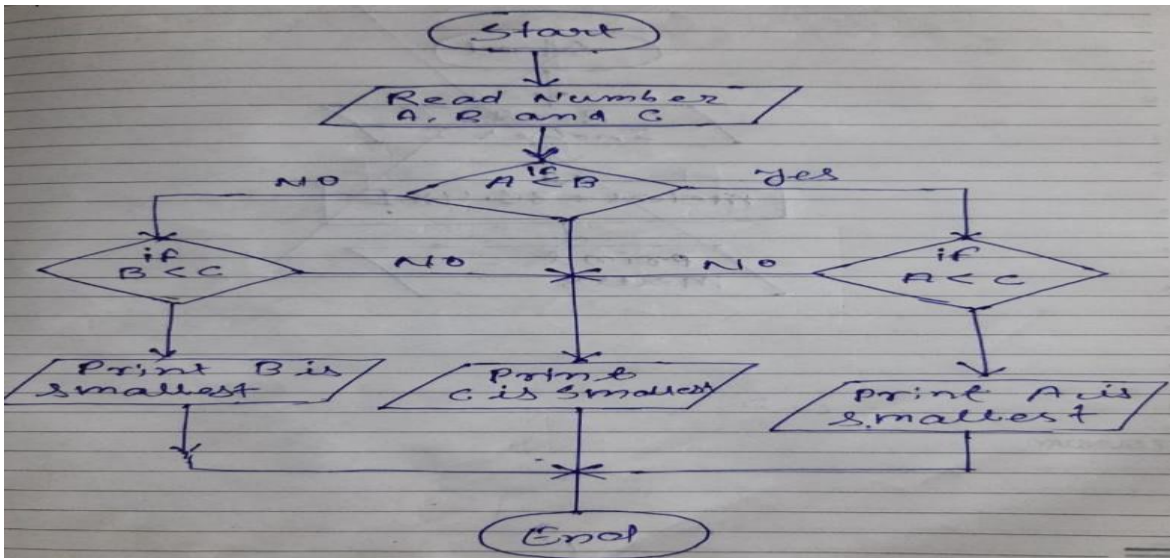**FLOWCHART**

```
                    ( Start )
                       |
                       v
              /  Read               /
             /  Age of Person      /
                       |
                       v
      True          /  if    \          false
   <------------   <  Age<60   >   ------------>
   |               \         /                 |
   |                                           |
   v                                           v
/ Print Not        /              / Print a          /
/ a Senior Citizen/               / Senior Citizen  /
   |                                           |
   |                                           |
   |              ( end )                      |
   +---------------->|<----------------------- +
                     v
                  ( end )
```
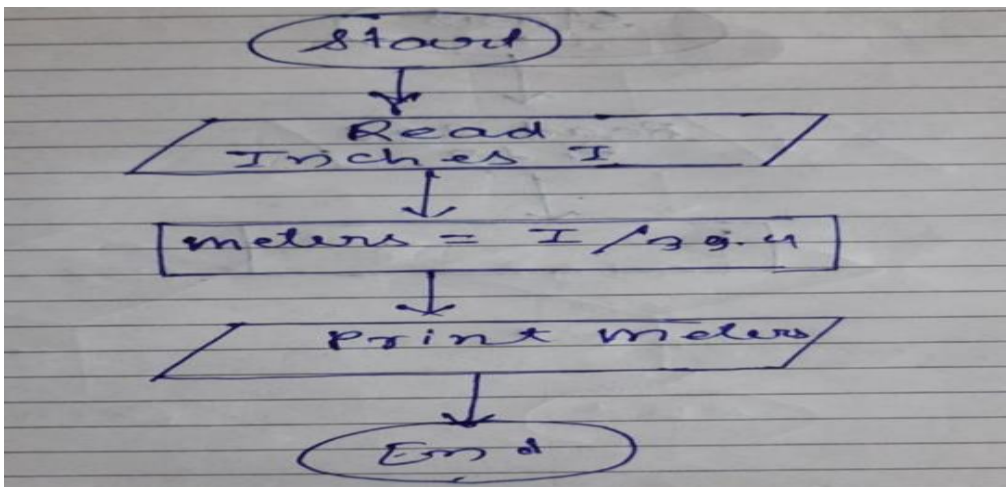
b) Read two numbers and print maximum of 2 numbers.
FLOWCHART

```
                    ( Start )
                       |
                       v
             /  Read First      /
             /  numbe A         /
                       |
                       v
             /  Read second    /
             /  number B       /
                       |
                       v
      True          /  if   \          false
   <------------   <  A > B   >   ------------>
   |               \        /                  |
   |                                           |
   v                                           v
/ Point            /              / Print            /
/ A is maximum    /               / B is maximum    /
   |                                           |
   |              ( End )                      |
   +---------------->|<----------------------- +
                     v
                  ( End )
```

c) Read three numbers and print smallest among 3 numbers.
FLOWCHART

Start

Read Number A, B and C

A ≤ B
- NO
- Yes

NO

NO

if B < C

if A < C

Print B is smallest

Print C is smallest

print A is smallest

End

d) Read a number in inches and convert it into meters.
FLOWCHART

Start

Read Inches I

meters = I / 39.4

Print meters

End

e) Print 2,4,6,8,10
FLOWCHART

Start

i = 0

i <= 10 ?
- yes
- NO

i % 2 == 0 ?
- NO
- yes

end

print i