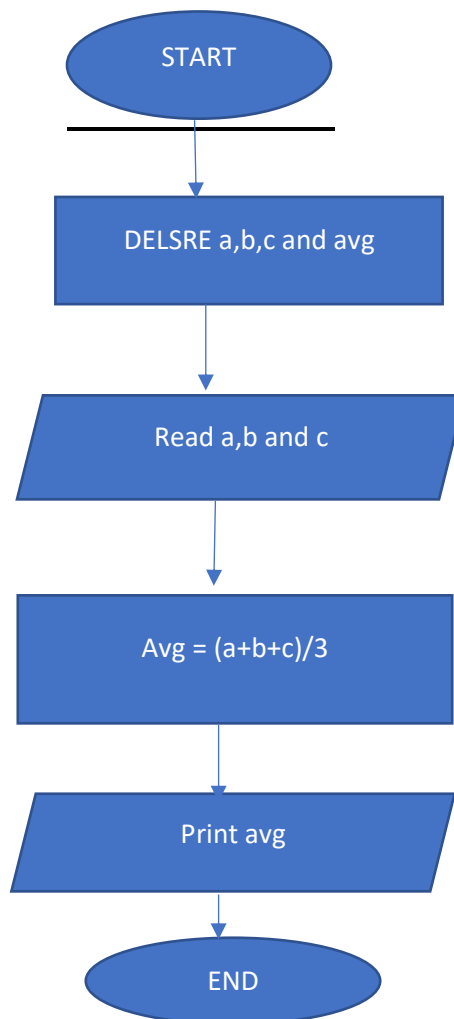# Assignment- 1

a) Find the average of three numbers a, b and c.

Algorithm

STEP 1   START

STEP 2   INPUT X,Y,Z

STEP 3   COMPUTE SUM = X + Y + Z

STEP 4   COMPUTE AVG = SUM/3

STEP 5   PRINT SUM

STEP 6   PRINT AVG

STEP 7   END

Flow chart

```
        ┌──────────┐
        │  START   │
        └──────────┘
             │
   ──────────────────────
             │
             ▼
    ┌──────────────────────┐
    │  DELSRE a,b,c and avg │
    └──────────────────────┘
             │
             ▼
    ╱──────────────────────╱
   ╱   Read a,b and c      ╱
  ╱──────────────────────╱
             │
             ▼
    ┌──────────────────────┐
    │   Avg = (a+b+c)/3     │
    └──────────────────────┘
             │
             ▼
    ╱──────────────────────╱
   ╱     Print avg         ╱
  ╱──────────────────────╱
             │
             ▼
        ┌──────────┐
        │   END    │
        └──────────┘
```

b) Find the area of a rectangle whose length and breadth are given.

Algorithm

Step 1: Start

Step 2: Input length and breadth

Step 3: area = length * breadth

Step 4: print area

Step 5: stop

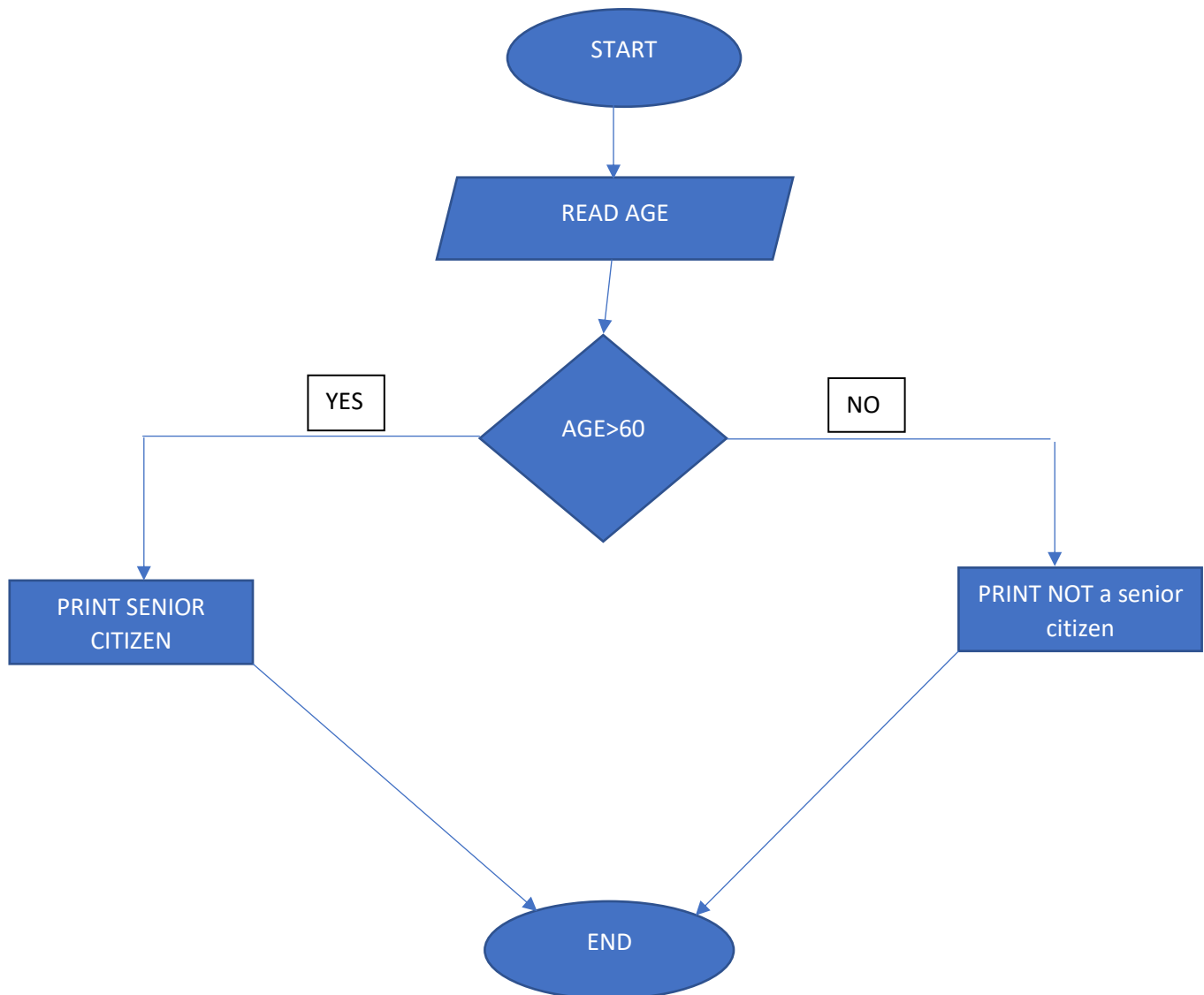## FLOW CHART

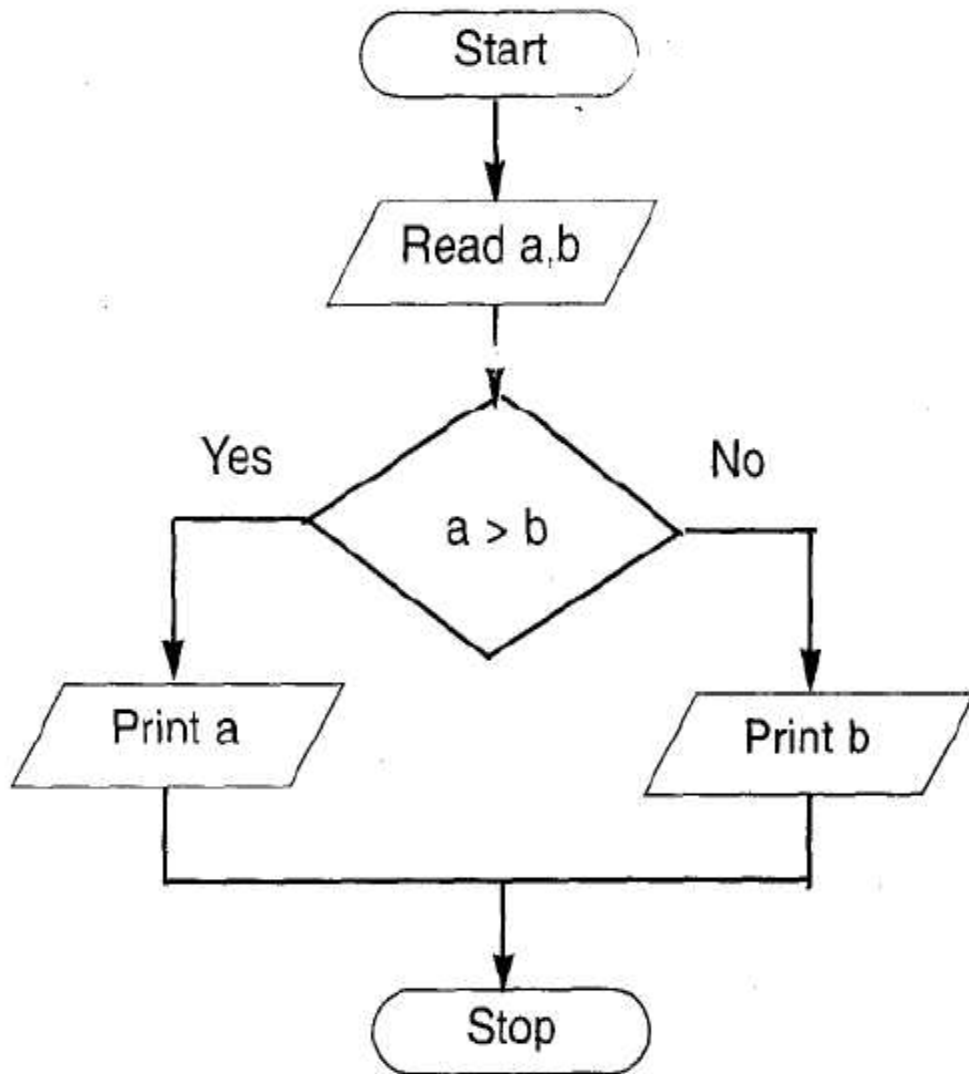START

READ length and breadth

Area = length*breadth

Print area

END
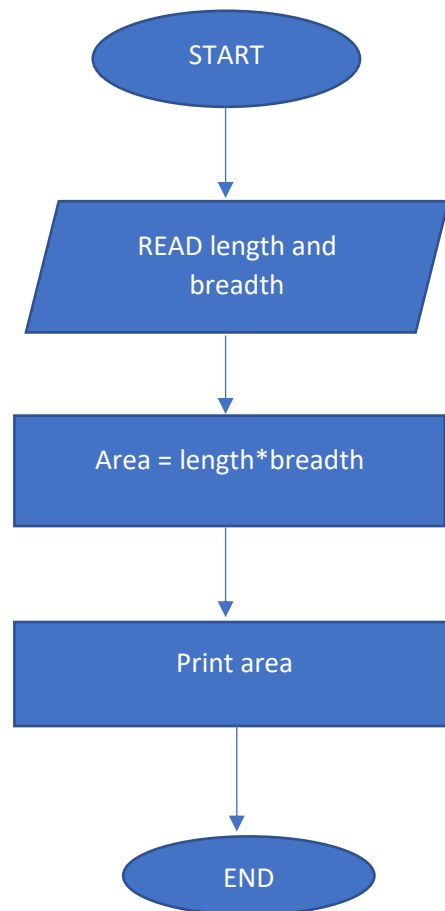
Read age of a person. If age less than 60 then print "Not a senior citizen" otherwise print "Senior Citizen".
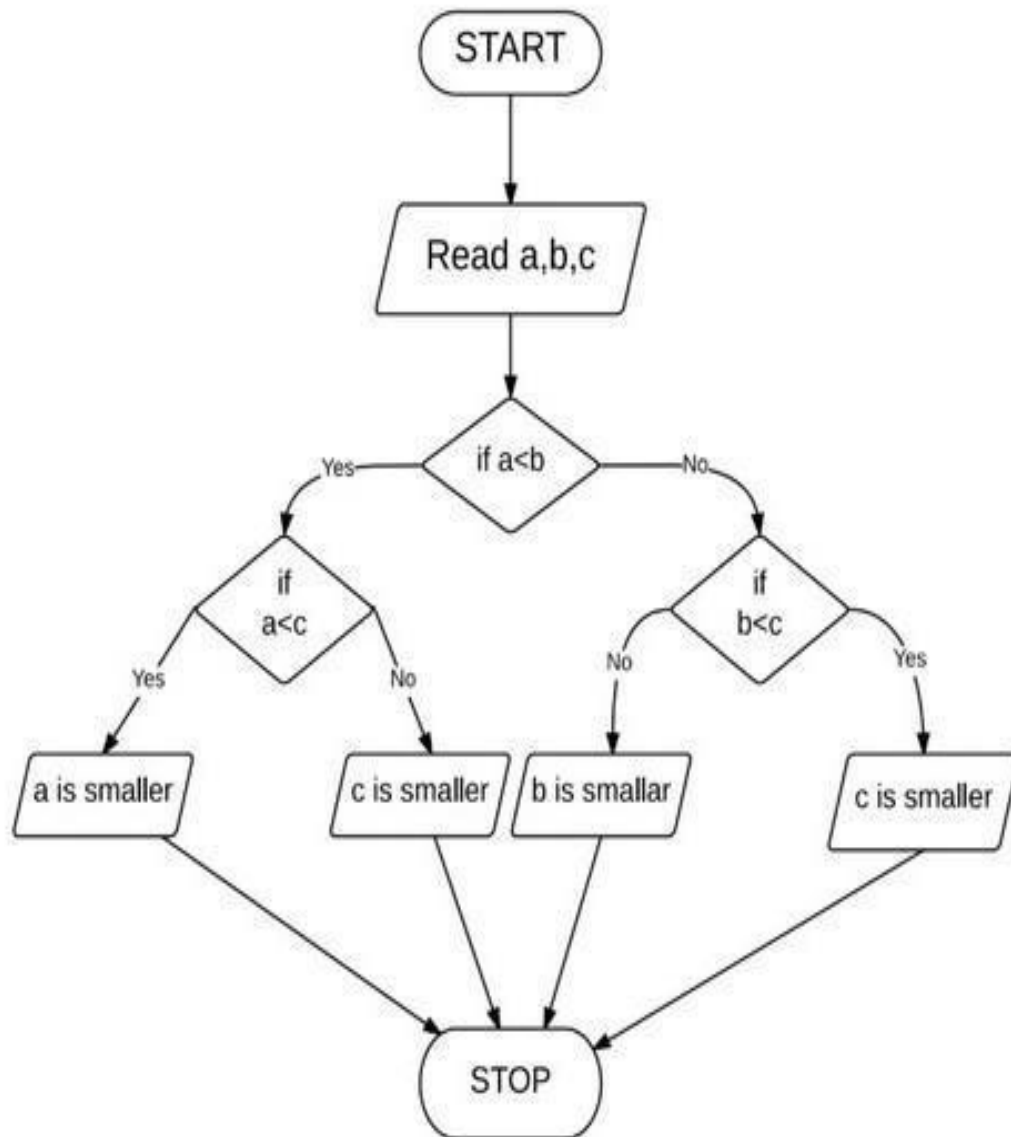
<u>FLOW CHART</u>

START

READ AGE

YES   AGE>60   NO

PRINT SENIOR CITIZEN

PRINT NOT a senior citizen

END

b) Read two numbers and print maximum of 2 numbers.

FLOW CHART

```
                    ( Start )
                        |
                        v
                  / Read a,b /
                        |
                        v
   Yes                 / \                  No
  <-------------------< a > b >------------------->
  |                     \ /                        |
  v                                                v
/ Print a /                                  / Print b /
  |                                                |
  +------------------------+-----------------------+
                           |
                           v
                       ( Stop )
```

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

FLOW CHART

START

Read a,b,c

if a<b
Yes
No

if
a<c

if
b<c

Yes

No

No

Yes

a is smaller

c is smaller

b is smallar

c is smaller

STOP

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

FLOW CHART

START

READ inch

Miter = `inch` * 0.0254

Print miter

END