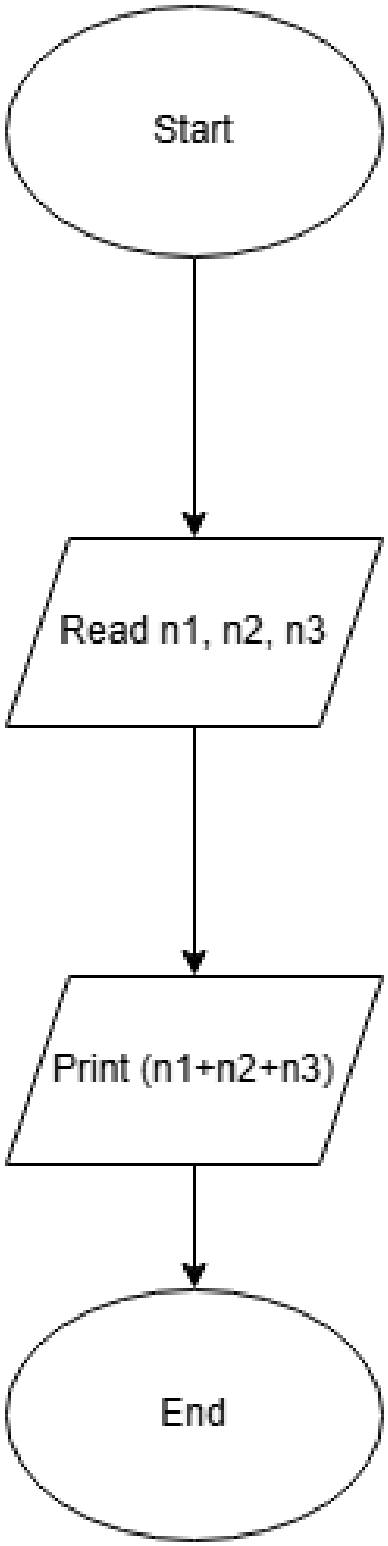
1. Write an algorithm and draw the flowchart to read three numbers, then find the summation between them?

Sol:

Algorithm:

1. *Start*
2. *Read: n1, n2, n3*
3. *Print: (n1+n2+n3)*
4. *End*

Flowchart:



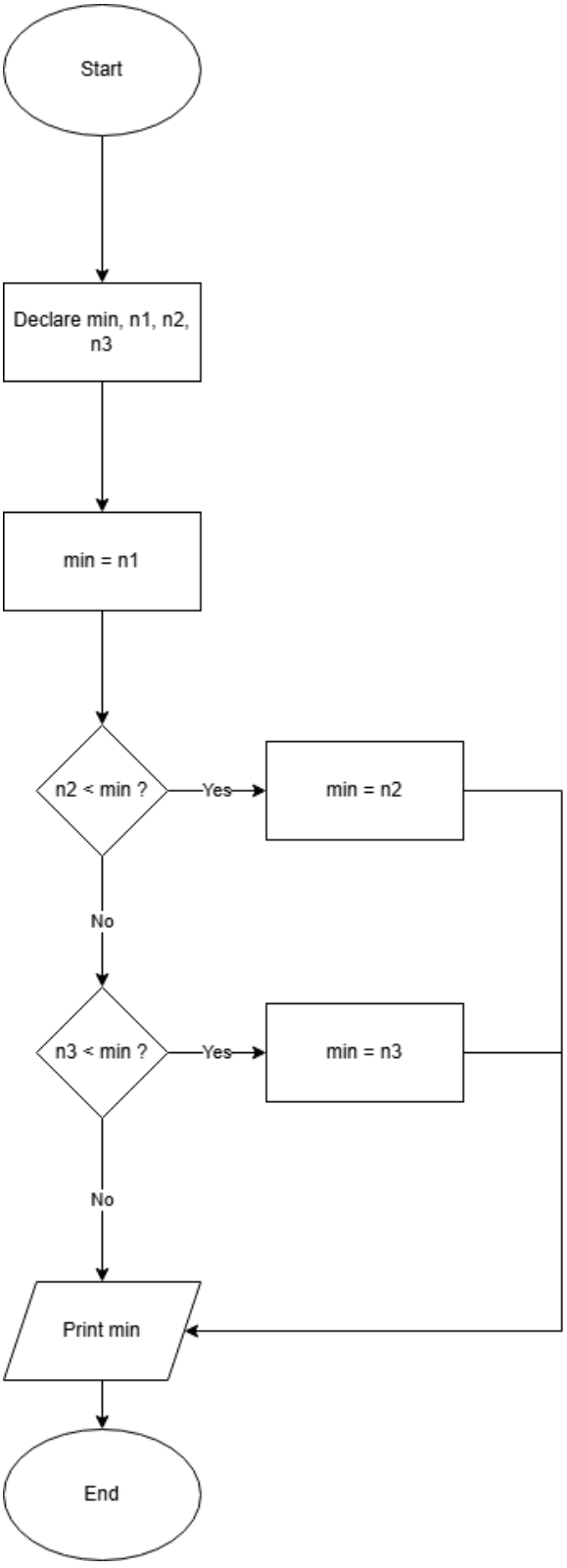
2. Write an algorithm and draw the flowchart to read three numbers, then find the smallest number between them?

Sol:

Algorithm:

1. *Start*
2. *Declare: min*
3. *Read: n1, n2, n3*
4. *Set: min = n1*
5. *If: (n2 < min) Then: min = n2*
6. *If: (n3 < min) Then: min = n3*
7. *Print: min*
8. *End*

Flowchart:


Start
Declare min, n1, n2, n3
min = n1
n2 < min ?
Yes
min = n2
No
n3 < min ?
Yes
min = n3
No
Print min
End

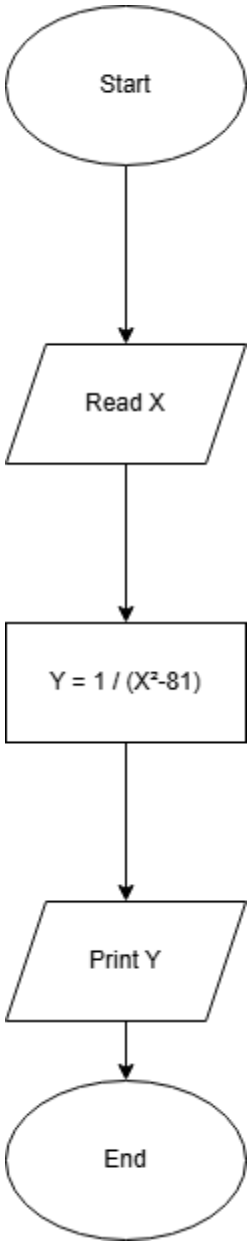
3. Write an algorithm to calculate the value of Y from the following equation? $Y = 1/(X^2 - 81)$

Sol:

Algorithm:

1. *Start*
2. *Read: x*
3. *Set: $Y = 1/(X^2 - 81)$*
4. *Calculate: Y*
5. *Print: Y*
6. *End*

Flowchart:



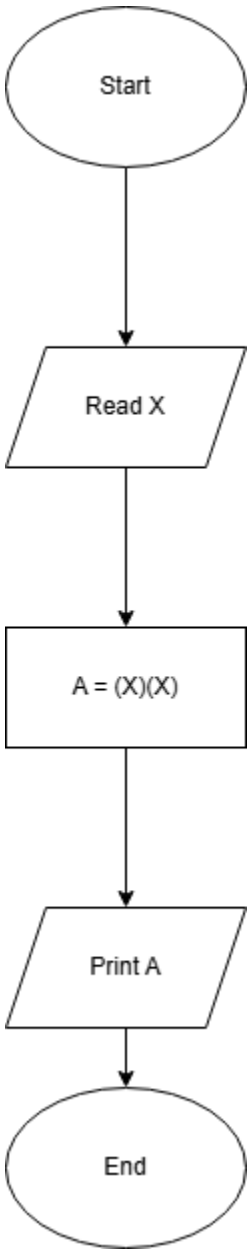
4. Write an algorithm to calculate the area of square?

Sol:

Algorithm:

1. *Start*
2. *Read: x*
3. *A = (x)(x)*
4. *Calculate: A*
5. *Print: A*
6. *End*

Flowchart:



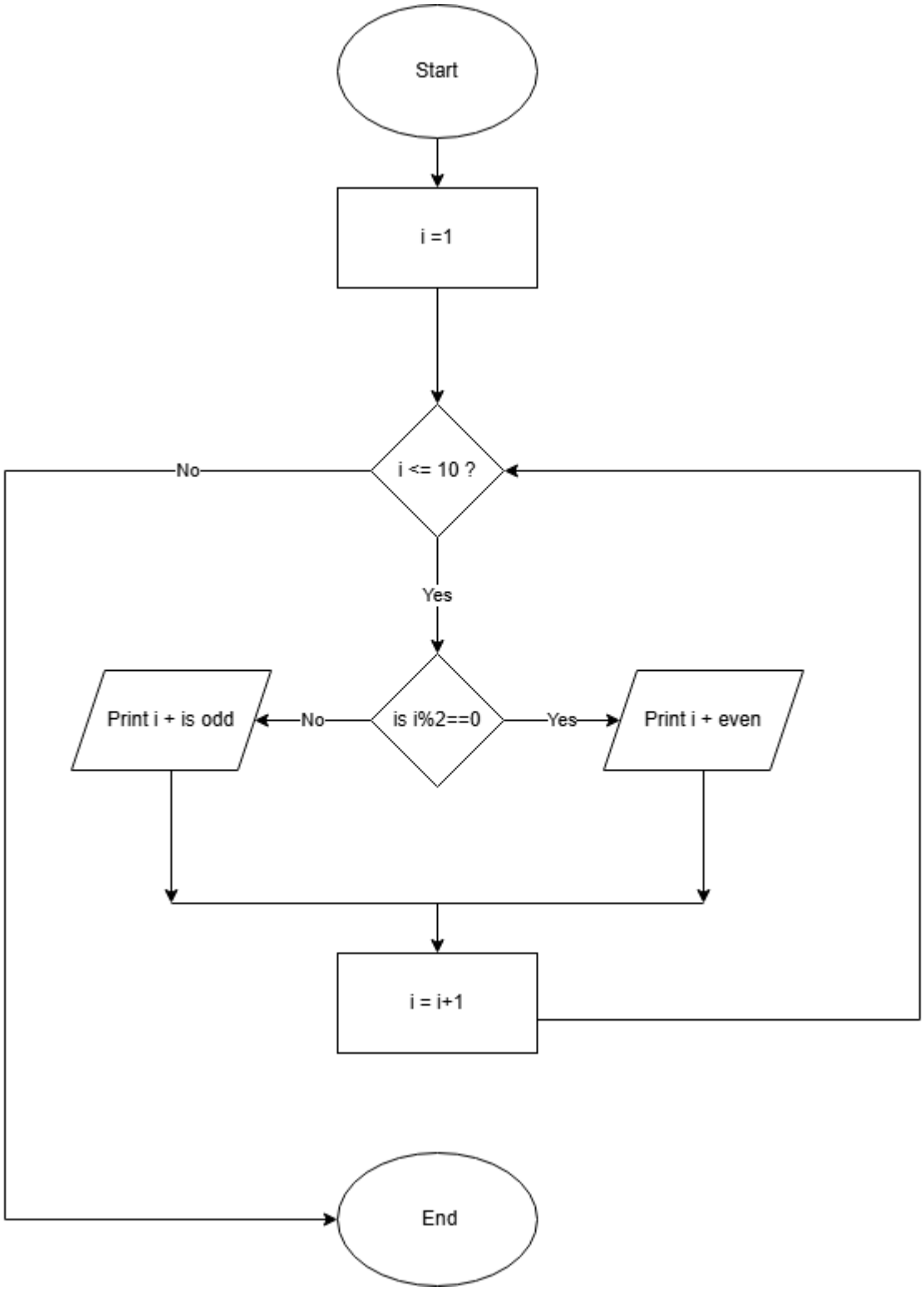
5. Write an algorithm and draw the flowchart to find the odd and even number between (1-10)?

Sol:

Algorithm:

1. *Start*
2. *Set: i = 1*
3. *Decision: i <= 10*
    a. *No: End*
    b. *Yes:*
        i. *Decision: i%2 == 0 ?*
            1. *Yes: print i + "is even"*
            2. *No: Print: i + "is odd"*
        ii. *Process: i = i+1*
        iii. *Go back to Decision: i <= 10*

Flowchart:


Start
i =1
i <= 10 ?
No
Yes
is i%2==0
No
Yes
Print i + is odd
Print i + even
i = i+1
End