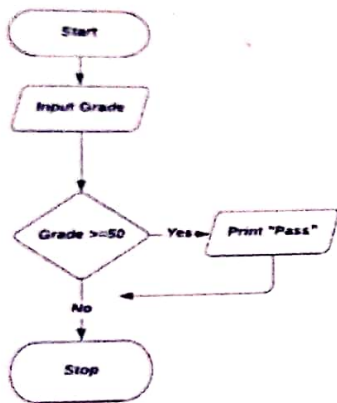


**Example 1:**

1. Start
2. Input grade
3. IF grade  $\geq 50$  THEN Print "Pass"
4. Stop

1. Find the output for the following pseudocode. ( given grade = 95 or grade=35)
2. Convert to the equivalent flowchart.

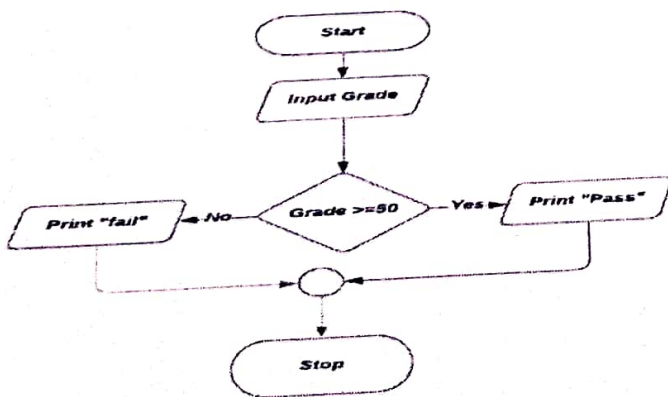


Output when grade=95:  
Grade      output  
95          Pass

Output when grade =35:  
Grade      output  
35          no output

**Example 2**

1. Start
2. Input grade
3. IF grade  $\geq 50$  THEN Print "Pass" else Print "FAIL"
4. Stop



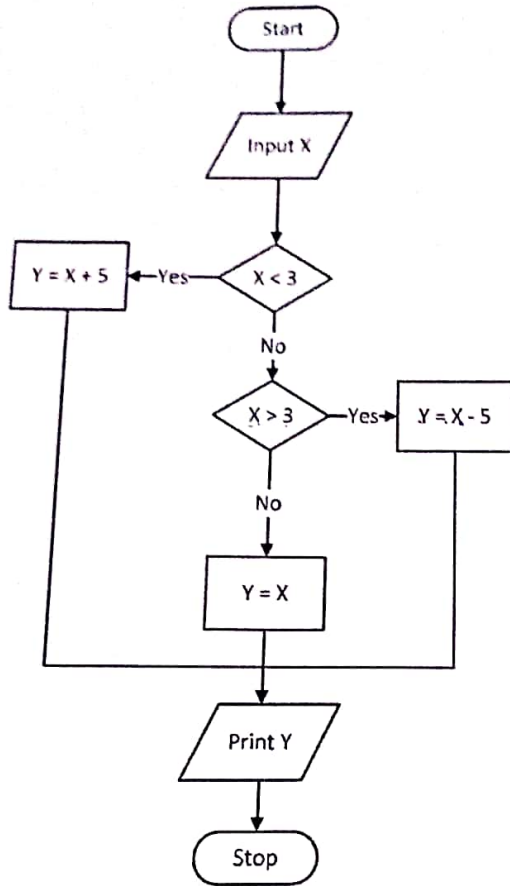
Output when grade= 95:  
Grade      output  
95          Pass

Output when grade= 35:  
Grade      output  
35          Fail

Computer Skills for Medical Students  
Problem Solving Part II

1. Find the output for the following pseudocode.

Find the output for the following flowchart:



Output when  $x = -1$

X	y	output
-1	4	6

Output when  $x = 3$

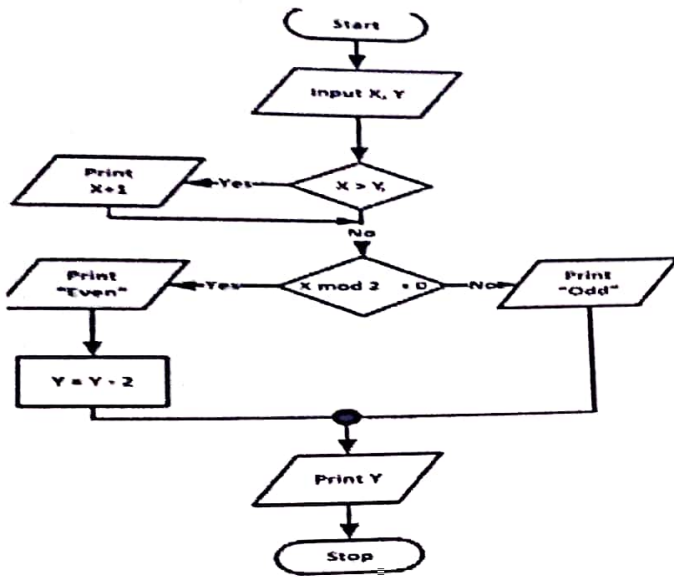
X	y	output
3	3	3

Output when  $x = 7$

X	y	output
7	2	2

#

1. Convert the following flowcharts to the equivalent pseudocodes
2. Find the output for the following flowchart assume that the inputs are : 2,8

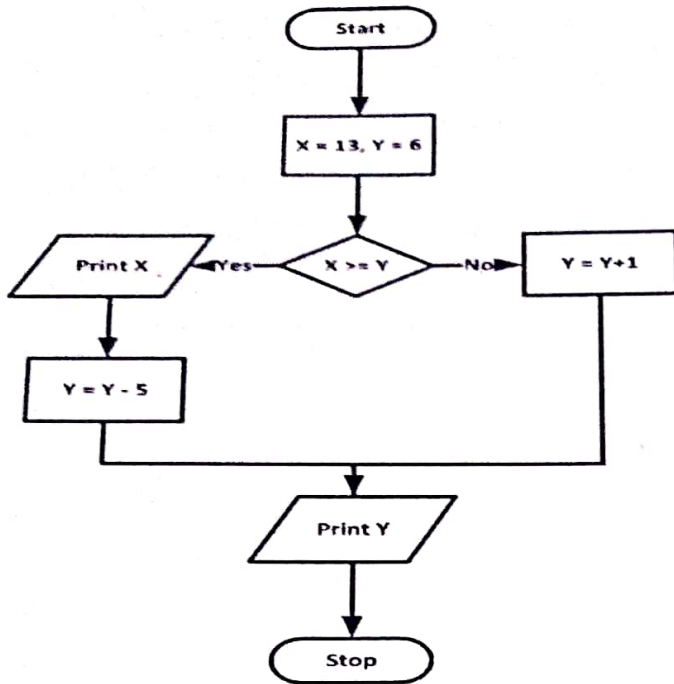


Output

X	Y	output
2	8	Even
	6	

Pseudocode :

1. start
2. Input X, Y
3. IF  $X > Y$  Then print  $X+1$
4. IF  $X \bmod 2 = 0$  Then print "even" ~~else~~  $Y = Y - 2$  else print "odd"
5. print Y
6. stop



Output		
X	Y	output
13	<del>6</del>	13
	+1	+1

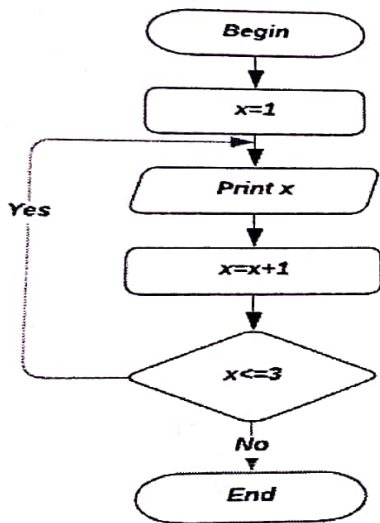
**Pseudocode :**

1. start.
2. let  $X = 13, Y = 6$
3. IF  $X \geq Y$  Then print  $X, Y = Y - 5$  else increment  $Y$  by 1 (  $Y = Y + 1$  )
4. print  $Y$
5. stop

**Looping :** performs the action as long as the condition is True.

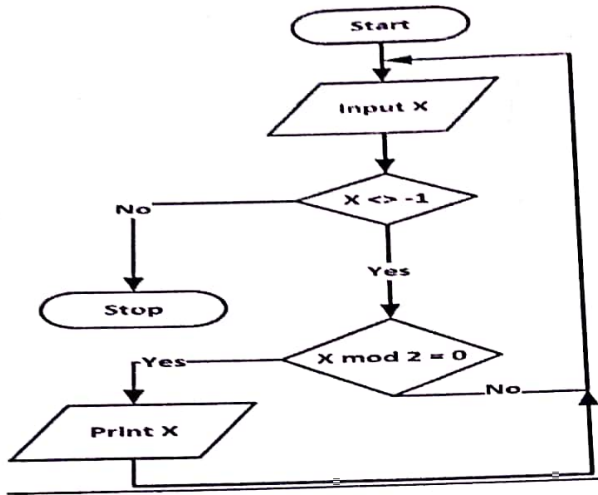
Find the output for the following pseudocode:

1. Begin
2. X=1
3. Print x
4. Increment x by 1
5. If  $x \leq 3$  then goto 3
6. End



X	output
1	1
2	2
3	3
4	

Find the output for the following pseudocode, given the following input: 3, 4, 5, 6, -1



Input	Output
3	
4	4
5	
6	6
-1	

Find the output for the following pseudocode:

1. Start
2. Sum=0,x=2
3. Sum=sum + x
4. Increment x by 2
5. If x <=4 then goto 3
6. Print sum
7. Stop

Sum	X	Output
0	2	
2	4	
6	6	6

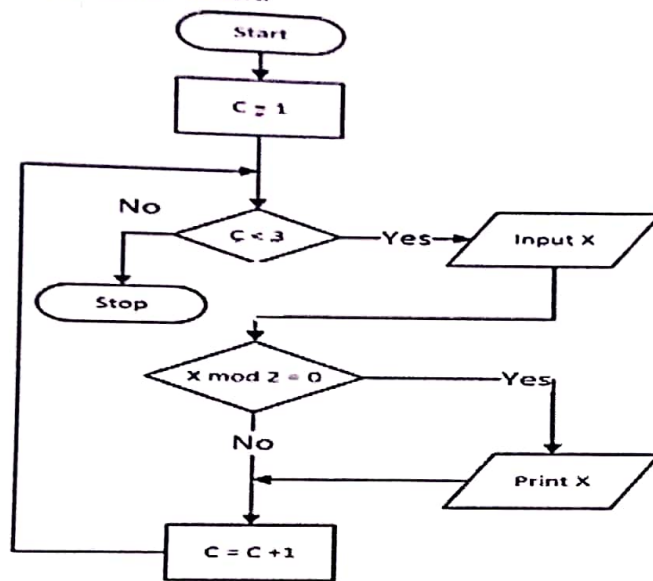
لأنه القاعدة  
غير ضرورية استخدام  
كل القيم  
المتاحة

- Find the output for the following pseudocode Assume the inputs are: 3,4,6,5
1. Begin
  2. C=1
  3. If  $c < 3$  then input x else goto 7
  4. If  $x \bmod 2 = 0$  then print x
  5.  $c = c + 1$
  6. goto 3
  7. end

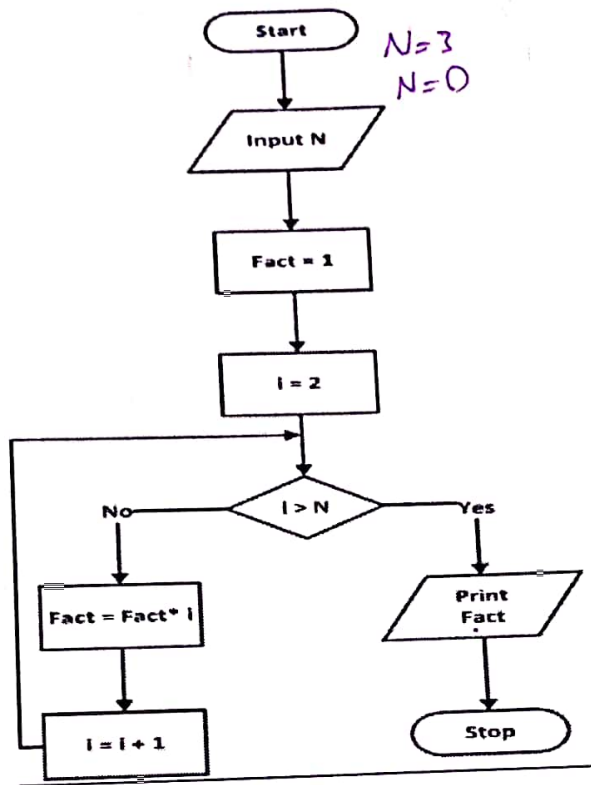
Output		
C	X	output
1	3	4
2	4	
3		

ممكن نواصل  
stop ↓

Draw the equivalent flowchart:







Output

N=3			
N	Fact	i	output
3	1	2	6
	2	3	
	6	4	
N=0			
N	Fact	i	output
0	1	2	1

1. find the output given N=3
2. find the output given N=0
3. Convert the flowchart to the equivalent pseudocode.

Pseudocode :