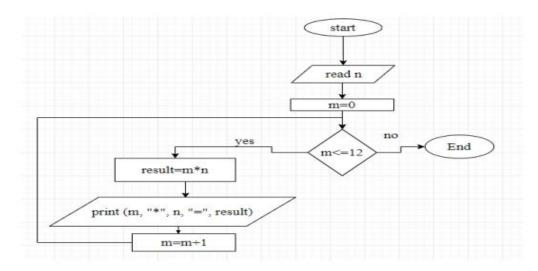
<u>08 – Flowchart Arabic</u>

Trace Table

- 1- What does the algorithm do?2- Trace with n=4

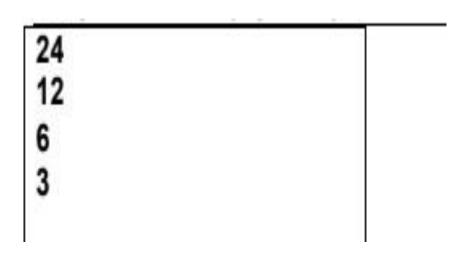


n	m	m<=12	res	print
4	0	true	0	0
4	1	true	4	4
4	2	true	8	8
4	3	true	12	12
4	4	true	16	16
4	5	true	20	20
4	6	true	24	24
4	7	true	28	28
4	8	true	32	32
4	9	true	36	36
4	10	true	40	40
4	11	true	44	44
4	12	true	48	48
4	13	false	-	_

- 1. Trace the following pseudocode algorithm for n = 48.
- 2. How many iterations of the loop are computed?

```
Input n
For(i=0, i<=10 ,i++)
    If (n %2 == 0)
        n=n/2
    Else
        break
    EndIf
    Output n
EndFor</pre>
```

n	1	i<=10	n%2==0
48	0	V	1
24	1	V	√
12	2	V	√
6	3	V	V
3	4	V	X (exist)



of iterations = 5