

**Example 6:**

You have a number equals to (N), write an algorithm and draw the flow chart to find the square of (N) if it equals or greater than ten otherwise find its cubic value.

Solution:

1-Start

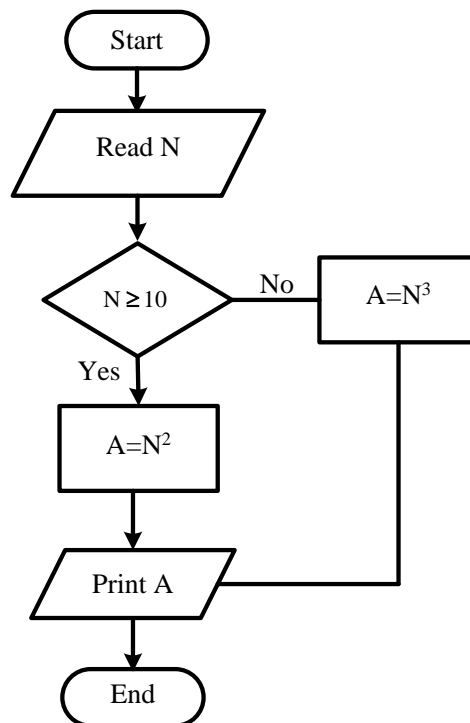
2-Read the value of N

3-Check if N equals or greater than 10, then  $A=N^2$

4- if  $N < 10$ , then  $A=N^3$

5- Print A

6- End



**Example 7:**

Write an algorithm and draw the flow chart to find the value of (X) from the following equations:

$$X = 2a^3 + b^2 - 6c \text{ when } a=b \text{ and } c < 10$$

$$X = 7a + 2b^4 + 5c \text{ when } a < b < c$$

$$X = \frac{3a - 6b}{c^3}$$

Solution:

1- start

2- read the values of a, b and c

3- if  $a=b$  and  $c < 10$  compute  $X = 2a^3 + b^2 - 6c$  and go to step 6

4- if  $b > a$  and  $b < c$  compute  $X = 7a + 2b^4 + 5c$  and go to step 6

5-  $X = \frac{3a - 6b}{c^3}$

6- print X

7- end

