Lec. 3

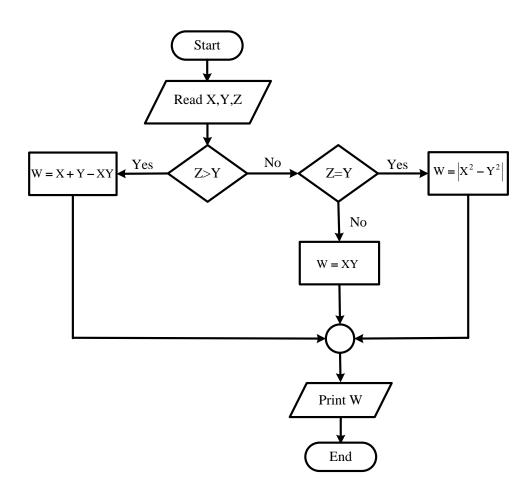
Example 4:

Write an algorithm and draw its flow chart to read the value of X,Y and Z and then compute W according to the following:

 $W = X + Y - XY \quad When Z > Y$ $W = |X^{2} - Y^{2}| When Z = Y$ W = XY When Z < YSolution: 1-Start 2-Read the values of X,Y and Z 3- If Z > Y, compute W from W = X + Y - XY4- If Z = Y, compute W from $W = |X^{2} - Y^{2}|$ 5-If Z < Y compute W from W = XY6-Print W

7-End





ALGORITHM

Lec. 3

Example 5:

Write an algorithm and draw its flow chart to find the value of X1 and X2

$$X1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a}, \qquad X2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

Solution:

1- Start

2-Read the values of a, b and c

- 3- If a=0 or $(b^2 4ac) < 0$, go to step 6 4- compute X1= $\frac{-b+\sqrt{b^2-4ac}}{2a}$ and X2= $\frac{-b-\sqrt{b^2-4ac}}{2a}$
- 5- print X1 and X2

6- End

