For certain business if the investor deposits amount of money (call it Deposit) dollars each year then the balance next year will follow the equation:

Balance\_New Year = 1.08 \* Balance\_ Last year + Deposit

(interest) (Annual deposit)

Using Matlab Write a function (m.file function) that:

1. Count the years the investor needs to have a balance exceeds 1000000.

Hint:

* Use **while** loop.
* Set a variable: Year =0 at the beginning, then use it to calculate the number of years.
* Name the Argument Variable as Bal which is the balance.
* Balance exceeds 1000000 means (Bal >1000000).
* Use **fprintf** command to display the number of years and the Balance.

1. At the end of this function write an **IF statement** that will evaluate the profitability of the business.

Hint:

* The program will consider this business as:

**GOOD Deal** if the number of years is less than 30.

**NOT Promising Business** if the number of years is more than 30.

**NO Profit No Harm** if the number of years is equal to 30.