



Post Test Loop

Do

statement(s)

Loop Until *condition*



Code inside “Do Loop Until”
executes **at least one** time.

If the evaluated condition is
False, the Loop end and
program continue to run.

Loop is executed once and then the condition
is tested. If it is False, the loop is run again.
If it is True, the statements following the
Loop statement are executed.



Post Test Loop Characteristics

- For “Post Test” Loop, Code inside the Loop will executes at least once no matter the testing Criteria is True or False.



Example: Repeat Request Until Proper Response is Given

The following Code demonstrate a segment of Password Checking Program, which requires user to input the correct password before he can proceed to the rest of the program.

Do

```
passWord = InputBox("What is the password?")
```

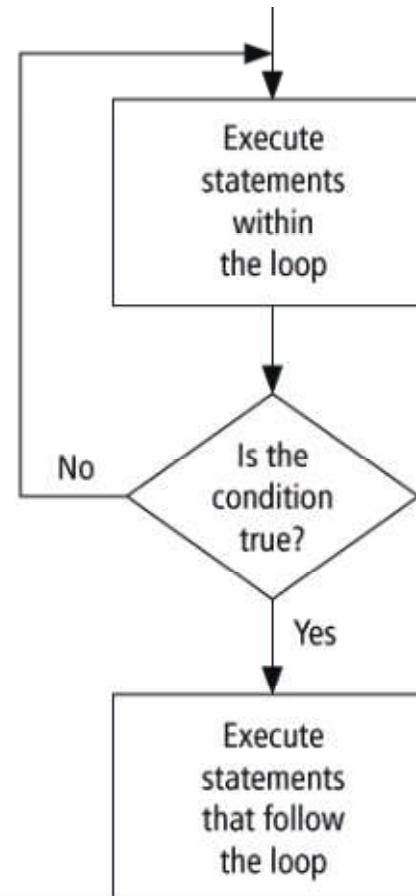
```
passWord = passWord.ToUpper
```

Loop Until passWord = "SHAZAM"



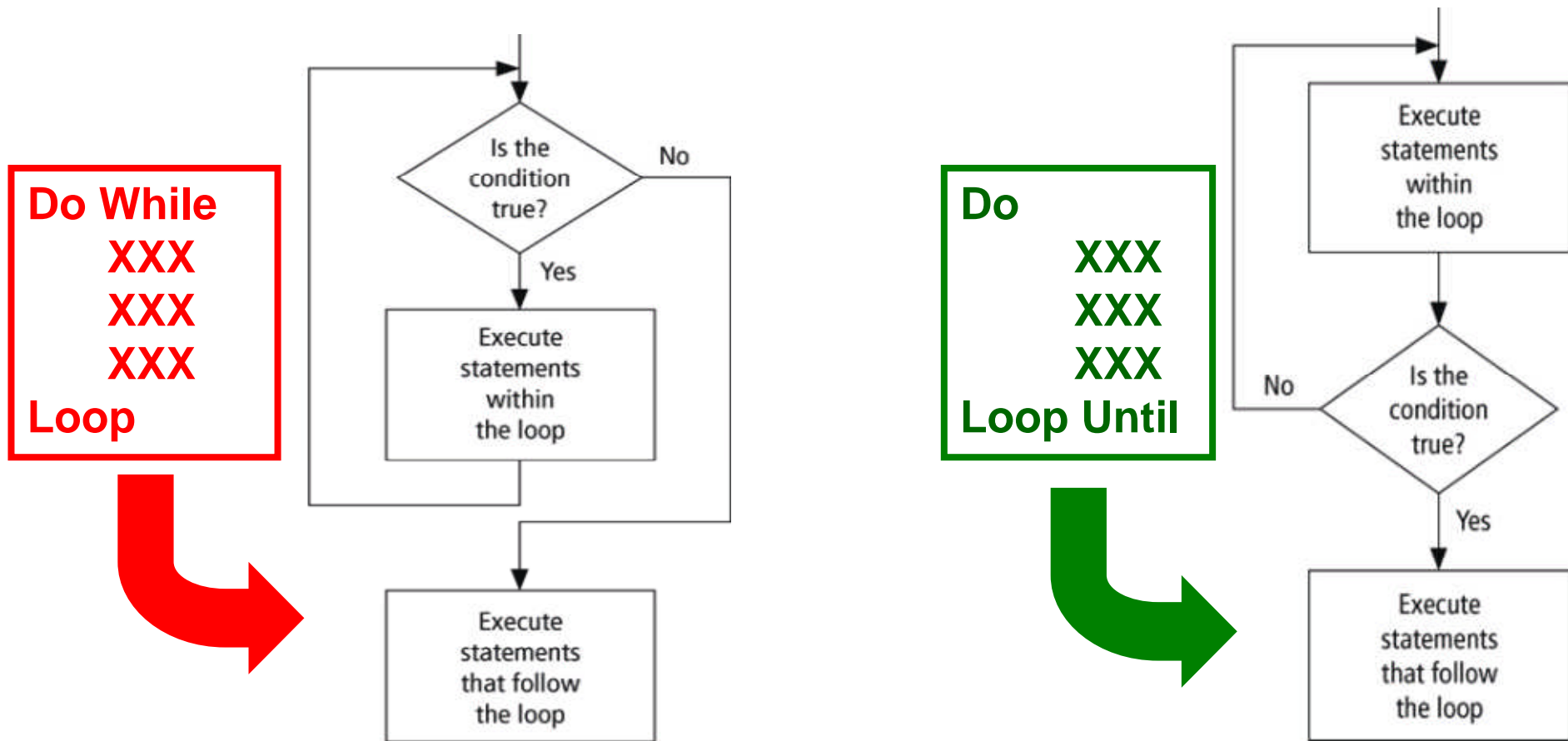
Pseudocode and Flowchart for a Post-Test Loop

Do
statement(s)
Loop Until condition is true





Comparison Between “Do While Loop” and “Do Loop Until”





Lab Sheet 6.2: The Millionaire Calculator

txtAmount

6% Interest - The Millionaire Calculator

Amount Deposited:

txtAmount

btnCalculate

txtWhen

First, build the Form with the above layout



How the Code Run ?

```
balance = CDbl(txtAmount.Text)
```

```
Do
```

```
    balance += 0.06 * balance
```

```
    numYears += 1
```





```
Loop until balance < 1000000
```

Balance will increase by 6% each time when the loop Program run.

This Line of Code prevent the program to become an infinite loop.



Lab Sheet 6.2 : Output

 **6% Interest**   

Amount Deposited:



Comments

- Be careful to avoid **infinite** loops – loops that never end.
- Visual Basic allows for the use of either the **While** keyword or the **Until** keyword at the **top** or the **bottom** of a loop.
- Try using putting While at the bottom or Until at the top of the screen and discover what is the difference.