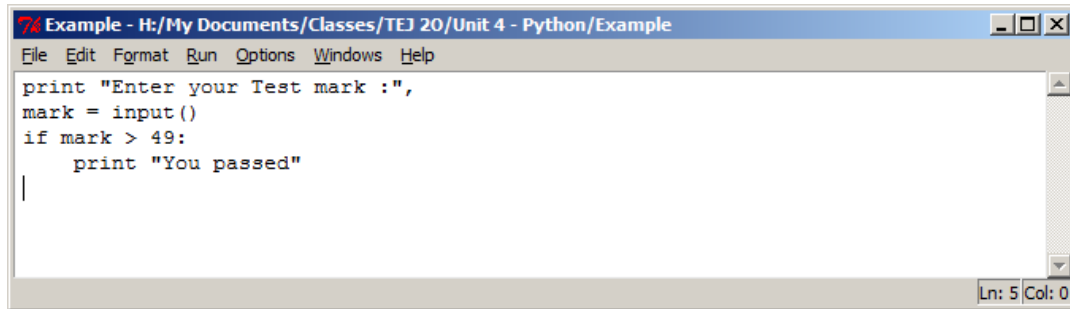# Python – IF Statements

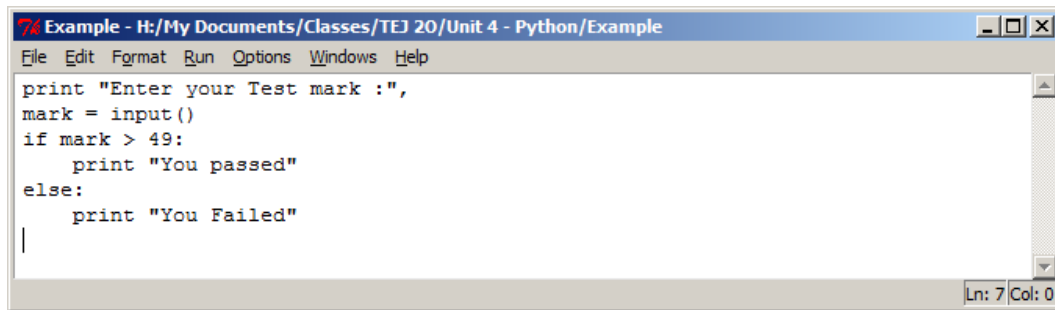An IF statement gives your program a "Condition" on whether to perform a task or not.

```
Example - H:/My Documents/Classes/TEJ 20/Unit 4 - Python/Example
File  Edit  Format  Run  Options  Windows  Help
print "Enter your Test mark :",
mark = input()
if mark > 49:
     print "You passed"
|
                                                            Ln: 5 Col: 0
```

The program will therefore only *print "You Passed"* **IF** the mark entered is > 49.

* Note the "**:**" at the end of the **IF** statement

We can add to the program, so that **IF** mark > 49, it will print "You passed", otherwise (**ELSE**) it will print "You Failed"

```
Example - H:/My Documents/Classes/TEJ 20/Unit 4 - Python/Example
File  Edit  Format  Run  Options  Windows  Help
print "Enter your Test mark :",
mark = input()
if mark > 49:
     print "You passed"
else:
     print "You Failed"
|
                                                            Ln: 7 Col: 0
```
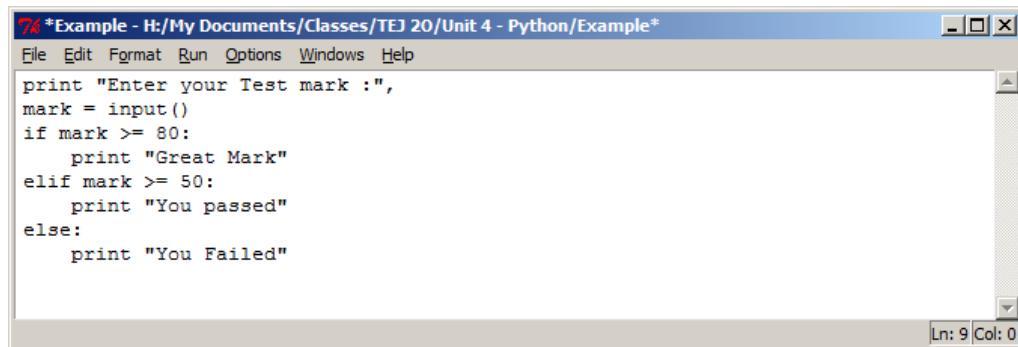
* Note the "**:**" at the end of the **ELSE** also

Other Comparisons:

=	Equals
!=	Does not Equal
>	Greater Than
<	Less Than
>=	Greater Than or Equal to
<=	Less Than or Equal to

ELIF: The ELIF (else if) statement, lets you expand your if statements to include more options. The format is :

> *if*
>> *commands*
> *elif*
>> *commands*
> *else*
>> *commands*

Let's create a program that prints the following statements:

> IF mark >= 80 print "Great mark"
> IF mark >= 50 print "You Passed"
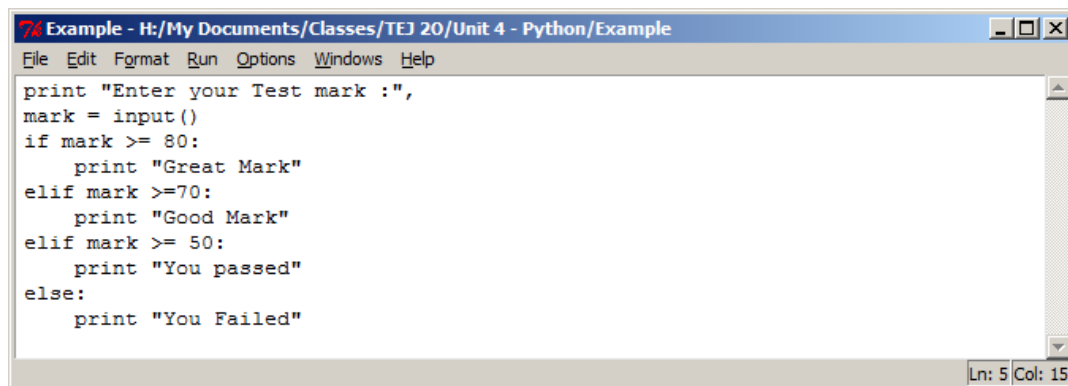> IF mark < 50 print "You Failed"


```
print "Enter your Test mark :",
mark = input()
if mark >= 80:
    print "Great Mark"
elif mark >= 50:
    print "You passed"
else:
    print "You Failed"
```

So the program looks at the mark, that was entered, to first see if it is **>= 80,** if not it then looks to see if it is **>=50,** if not it must be **<50.**

You can have as many **ELIF** statements that you want in a program.

Let's add a statement for when the mark is >=70


```
print "Enter your Test mark :",
mark = input()
if mark >= 80:
    print "Great Mark"
elif mark >=70:
    print "Good Mark"
elif mark >= 50:
    print "You passed"
else:
    print "You Failed"
```