



If else statements python



By Jayesh Karvir



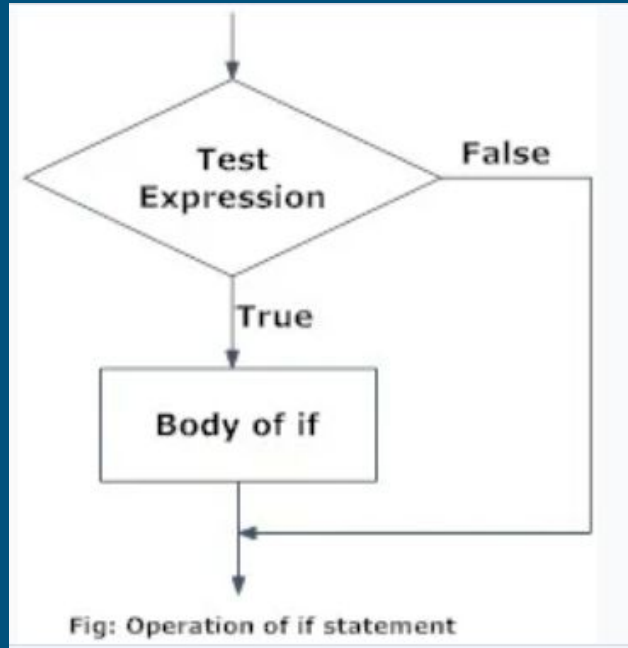
What is if...else statement in Python?

Decision making is required when we want to execute a code only if a certain condition is satisfied.

The if...elif...else statement is used in Python for decision making.

```
if test expression:  
    statement(s)
```

Flowchart for if



Example

```
# If the number is positive, we print an appropriate message

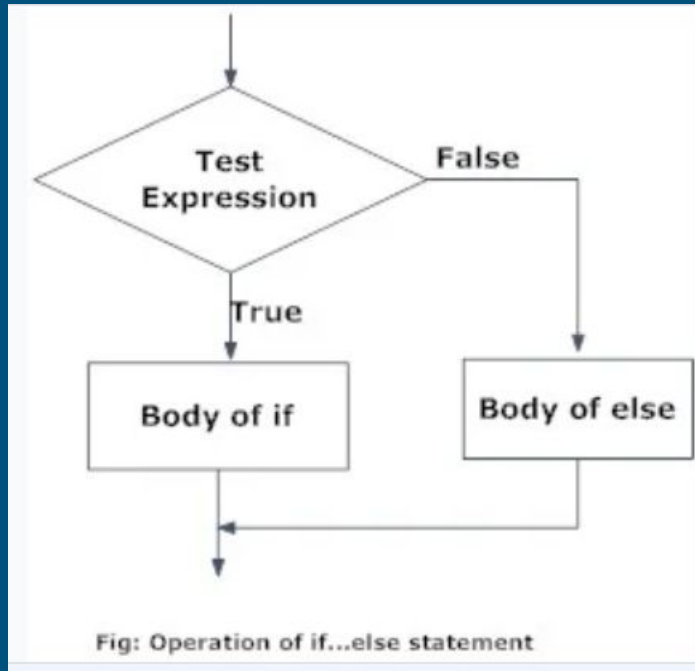
num = 3
if num > 0:
    print(num, "is a positive number.")
print("This is always printed.")

num = -1
if num > 0:
    print(num, "is a positive number.")
print("This is also always printed.")
```

If else statement

```
if test expression:  
    Body of if  
else:  
    Body of else
```

Flowchart



Example

```
# Program checks if the number is positive or negative  
# And displays an appropriate message
```

```
num = 3
```

```
# Try these two variations as well.
```

```
# num = -5
```

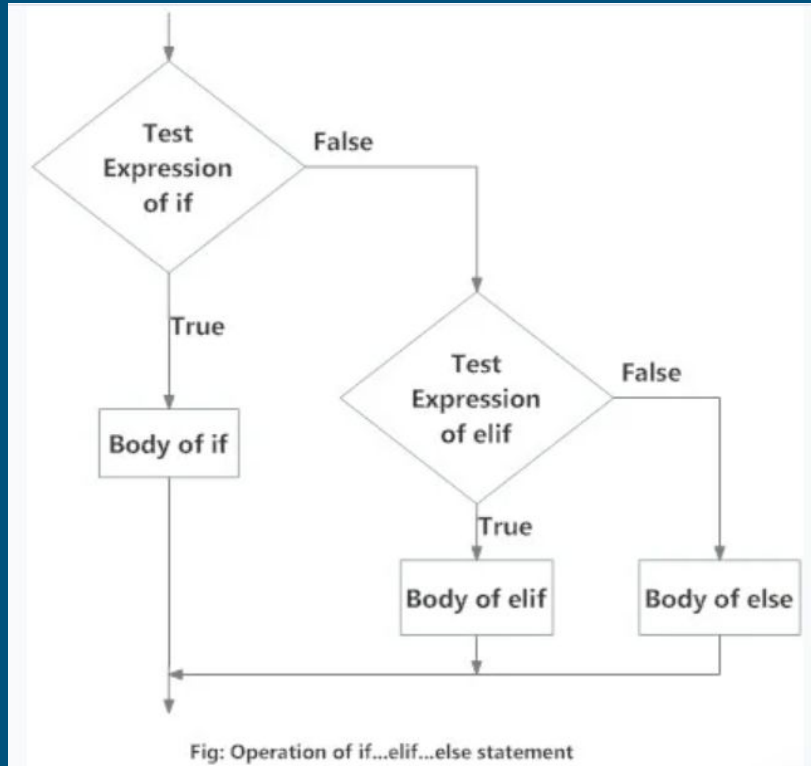
```
# num = 0
```

```
if num >= 0:  
    print("Positive or Zero")  
else:  
    print("Negative number")
```

If elif else

```
if test expression:  
    Body of if  
elif test expression:  
    Body of elif  
else:  
    Body of else
```


Flowchart



Example

```
'''In this program,  
we check if the number is positive or  
negative or zero and  
display an appropriate message'''  
  
num = 3.4  
  
# Try these two variations as well:  
# num = 0  
# num = -4.5  
  
if num > 0:  
    print("Positive number")  
elif num == 0:  
    print("Zero")  
else:  
    print("Negative number")
```

Nested if else

```
'''In this program, we input a number  
check if the number is positive or  
negative or zero and display  
an appropriate message  
This time we use nested if statement'''
```

```
num = float(input("Enter a number: "))  
if num >= 0:  
    if num == 0:  
        print("Zero")  
    else:  
        print("Positive number")  
else:  
    print("Negative number")
```

Any Questions?

References

<https://www.programiz.com/python-programming/if-elif-else#:~:text=The%20elif%20is%20short%20for,body%20of%20else%20is%20executed.>