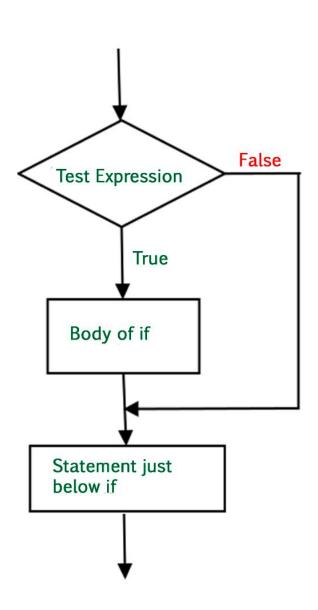


#### Conditional Statement — if statement

- Selection structure control the flow of statement execution based on some condition i.e. you can skip some of the instructions based on the condition.
- The if statement in Python will allow to make decision based on the condition. If the test expression is True then it allows to execute the statements inside if condition. If the test expression is False then it follows the statements after the if condition without executing the statements inside if condition
- Python if statement syntax is
   if test expression:
   statement(s) (with indentation)

### if Statement Flow Chart



Write a program to find out whether the given number is EVEN or ODD.
 Please read the number from user input.

```
a=int(input("Enter a number : "))
if a%2==0:
  print("Given number is EVEN")
if a%2==1:
  print("Given number is ODD")
```

Write a program to verify the given number is positive or negative.
 Read the number from the user input.

```
a=int(input("Enter a number : "))

if a>0:
    print("Given number is POSITIVE")

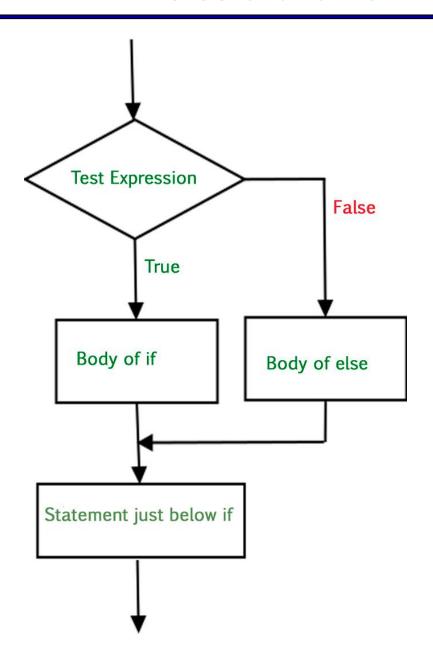
if a<0:
    print("Given number is NEGATIVE")</pre>
```

#### if - else Statement

The if - else statement evaluates test expression and will execute body
of if (statements in if) only when test condition is True. If the test
expression is False, body of else is executed.

```
    Python if statement syntax is
        if test expression:
            statement(s) (with indentation)
        else:
            statement(s) (with indentation)
```

### if - else Statement Flow Chart



Write a program to find out whether the given number is EVEN or ODD.
 Please read the number from user input.

```
a=int(input("Enter a number : "))
if a%2==0:
    print("Given number is EVEN")
else:
    print("Given number is ODD")
```

Write a program to find out the given year is a LEAP year or not.
 Please read the number from user input.

```
a=int(input("Enter the year: "))
if a%4==0:
    print(a, "is LEAP year")
else:
    print(a, "is not LEAP year")
```

Write a program to find out GREATEST among two given numbers.

```
num1=int(input("Enter a number: "))
num2=int(input("Enter a number: "))
if num1>num2:
    print(num1, "is GREATER")
else:
    print(num2, "is GREATER")
```

• Write a program to print the given THREE numbers in Ascending order.