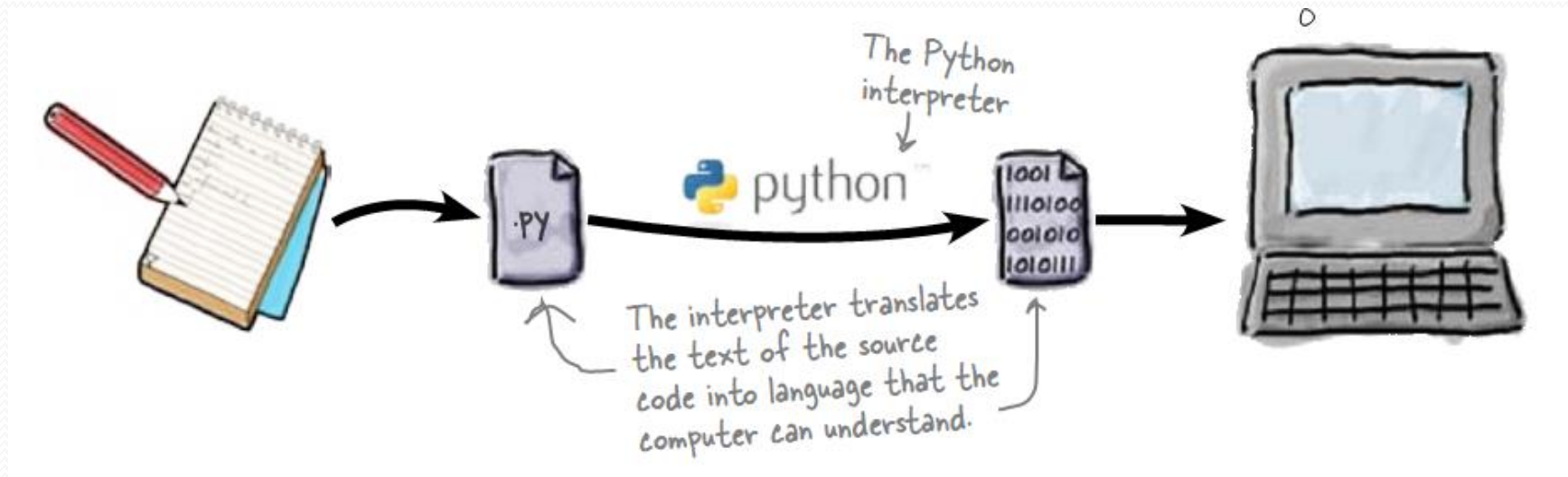


Python Language

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How do you run your code



IF and ELSE with Python

Ex: -

```
print("Welcome")
m = input("Enter Marks")
marks = int(m)
if marks>50:
    print("Pass")
else:
    print("Fail")
print("Bye")
```

Nested IF ELSE

Hint: Don't forget to indent.

```
print("Welcome!")
g = input("Guess the number: ")
guess = int(g)
if guess == 5:
.....
    print("You win!")
.....
else:
.....
    if guess > 5:
.....
        print("Too high")
.....
    else:
.....
        print("Too low")
.....
print("Game over!")
.....
```

All of this code is indented under the else part of the original if part.

While Loop

Ex: -

```
answer="no"
```

```
while answer=="no":
```

```
    answer = input("Are we there ?")
```

```
print("Yes We are there")
```

Hint: If you need to test that two things have different values, use the `!=` operator.

Loops and Conditions

```
print("Welcome")
guess=0;
while guess!=5:
    g = input("Guess the Number :")
    guess = int(g)
    if guess==5:
        print("You Win")
    else:
        if guess>5:
            print("Too High")
        else
            print("Too Low")
print("Game Over")
```

Using Random Numbers

These are the Two Lines of Code which creates a Random Number

```
from random import randint  
secret = randint(1,10)
```

The *secret* variable will be set to a random number between 1 and 10.

Using Random Numbers contd..

```
from random import randint
secret = randint(5,15)
guess=0
while guess!=secret:
    g=input("Guess the Number :")
    guess=int(g)
    if(guess==secret):
        print("You Won")
    else:
        if guess>secret:
            print("Too High")
        else:
            print("Too Low")
print("Game Over")
```


Summery

- if/else branches
- while loops
- = assignment operator
- == equality operator
- != inequality operator
- > greater than operator
- print() displays a message on screen
- input() gets and returns user input
- int() converts characters to numbers
- randint() produces a random number