

# BASICS OF PHYTON

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**WHAT DOES A COMPUTER DO ?**

**THEY PERFORM CALCULATIONS AND  
REMEMBER THINGS**

# TYPES OF KNOWLEDGE

IMPERATIVE KNOWLEDGE  
IT TELLS RECIPE OR 'HOW TO'  
FOR E.G  
GO TO THE KITCHEN OPEN THE  
FRIDGE  
BRING THE MILK FROM IT .

DECLARATIVE KNOWLEDGE  
IT IS A STATEMENT OF FACT  
FOR E.G :  
BRING A CHILLED WATER BOTTLE

# PRIMITIVE CONSTRUCTS IN PROGRAMING

- STRING
- SIMPLE OPERATORS
- NUMBERS VARIABLES

# ASPECTS OF LANGUAGE

- SYNTAX
- FOR E.G:
- “HI”5 - NOT SYNTACTICALLY VALID .
- $3.2*5$  - SYNTACTICALLY VALID

# Visual Studio Code.

Visual Studio code is easiest to install and work with

<https://code.visualstudio.com/>



Download and Install Python support.  
[https://code.visualstudio.com/docs/  
python/python-tutorial](https://code.visualstudio.com/docs/python/python-tutorial)

# THINGS THAT WE WILL LEARN IN THIS DEMO

- VARIABLES
- NUMBERS
- IF ELSE
- FOR LOOP
- WHILE LOOP
- ITERATORS
- DATES
- ARRAYS

# VARIABLES

- `x=5`
- `y="JHONH"`
- `print(x)`
- `print(y)`

# NUMBERS

- TYPES OF NUMBERS
- INTEGERS
- FLOAT
- COMPLEX

# LOOPS

- **FOR LOOP:**It can execute a set of statements, once for each item in a list, tuple, set etc.
- **WHILE LOOP:**It can execute a set of statements as long as a condition is true.

# ITERATORS

- An iterator is an object that contains a countable number of values.
- Technically , in Python ,an iterator is an object which implements the iterator protocol ,which consists of the methods `iter()` and `next()`.
- An iterator is an object that can be iterated upon, meaning that you can traverse through all the values.

# PYTHON COLLECTIONS(ARRAYS)

- LIST:is a collection which is ordered and changeable. Allows duplicate members.
- TUPLE:is a collection which is ordered and unchangeable. Allows duplicate members.
- DICTIONARY:is a collection which is unordered, changeable and indexed. No duplicate members.
- SET: Is a collection which is unordered and unindexed. No duplicate members.