

BASICS OF PYTHON

BY: ANSHU

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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
FRIGE
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.