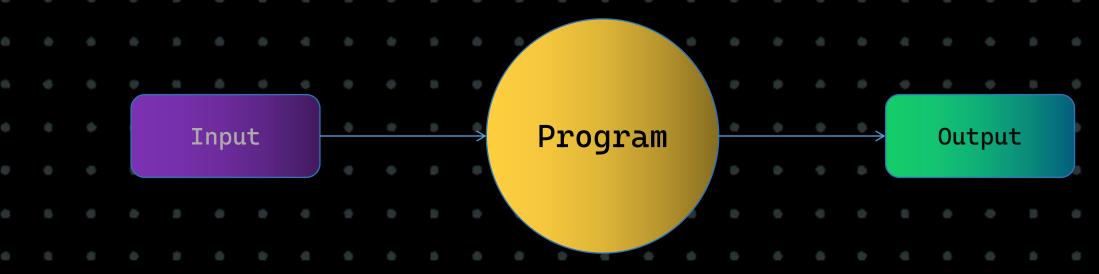
Python Fundamentals

IPO-Mechanism (Input-Processing-Output)

Anywhere and everywhere, where you want to get certain output from input you must have a program to get the desired result.

A program is a set of instruction that solve a particular problem statement.



- should be easy to understand
- less syntaxial complexity
- easy to reliable
- aware about space and time complexity

Python Character Set

set of valid characters that a specific language can recognize. Python supports Unicode Encoding Standards.

Letters	A-Z, a-z
Digits	0-9
Special symbols	space +-*/**\()[]{}//=!===<,>.'"",;:%! &#<=>=@_(underscore)</td></tr><tr><td>Whitespaces</td><td>Blank space, tabs (→), carriage return (¬), newline, formfeed.</td></tr><tr><td>Other characters</td><td>Python can process all ASCII and Unicode characters as part of data or literals.</td></tr></tbody></table>

```
index.py
print("Block Letters: ","A-B-C-D-E-F-G....Z \n")
print("Small Letters: ","a-b-c-d-e-f-g....z \n")
print("Special Symbols: ","! @ # $ % ^ & * ( )....{ ] : ;")
```

```
PS C:\transfer\new f drive\Godmode\tution\python\materials\Day 3> python index.py
Block Letters: A-B-C-D-E-F-G....Z

Small Letters: a-b-c-d-e-f-g....z

Special Symbols: ! @ # $ % ^ & * ( )....{ ] : ;
PS C:\transfer\new f drive\Godmode\tution\python\materials\Day 3> []
```

"I am the One who is living in everyone's soul"

Lexical units or <u>Tokens</u>

In a passage of text every indivisual word and punctuation mark is called Tokens

```
index2.py > ...
1    name = "Khogen Mahato"
2    age = 40
3    income = 50000.25
4
5    print("The age of", name," is", age," and his income is",income)
6
7
Tokens (Smallest Indivisual Units)
```

