





(/)

LIECOME TO

HELLO PYTHON

{Code & Conquer PYTHON!}





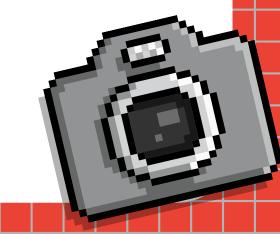


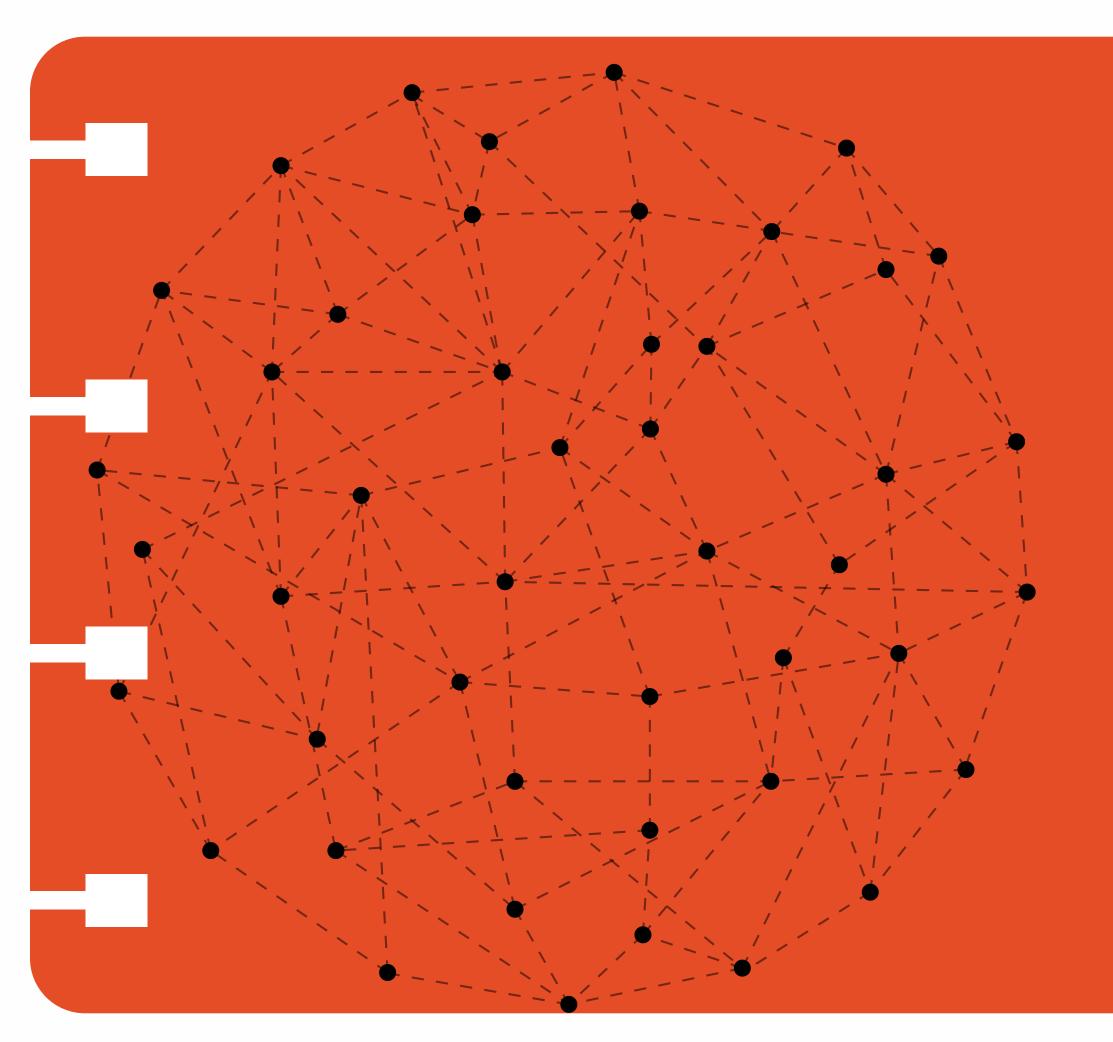


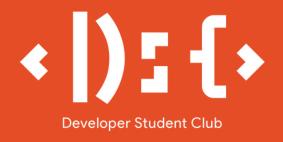


Let's Start







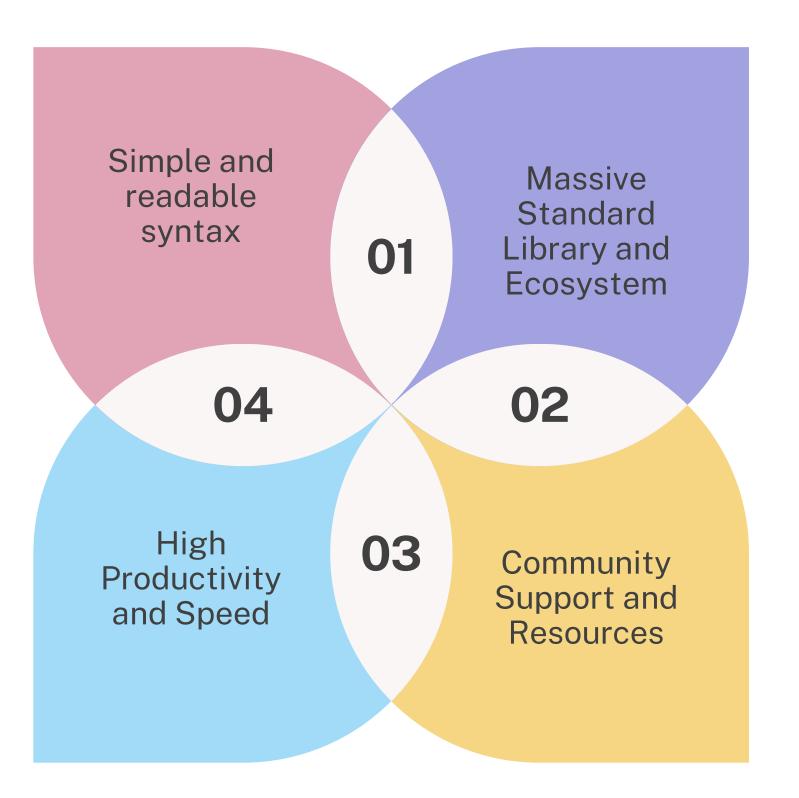


Why Python?





How is it different?







Popular Apps Using Python











Flow for Day 1



01

Basic Input Output

02

Data Types

03

Statements and Expressions

04

Branching and Decision making

05

Functions







VS









ONLINE COMPILER













- input()
- print()



Data Types In Python



NUMERIC TYPE

- int: Represents whole numbers (e.g., 5, -12, 1000).
- float: Represents floating-point numbers or decimal values (e.g., 3.14, -0.001, 2.0).
- complex:

 Represents complex numbers with a real and imaginary part (e.g., 2 + 3j, -1 2j).

SEQUENTIAL TYPE

- **list:** An ordered, mutable collection of items (e.g., [1, 2, 3], ['apple', 'banana']).
- tuple: An ordered, immutable collection of items (e.g., (1, 2, 3), ('a', 'b', 'c')).
- range: Represents

 an immutable
 sequence of
 numbers, commonly
 used in loops (e.g., range(5))

TEXT TYPE

 str: Represents a sequence of characters (strings) (e.g., "hello", 'Python').

MAPPING TYPE

dict: A collection of key-value pairs.
(e.g., {'name': 'Alice', 'age': 25})



Data Structures In Python



List

Tuple

Set

Dictionary

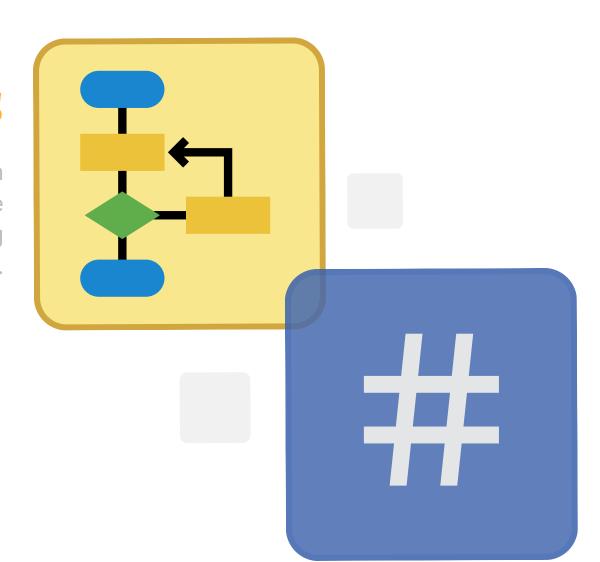




How To think?

USE FLOWCHARTS

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart.



WRITE COMMENTS

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart.





Statements And Expressions

- An expression always evaluates to a value
- A statement does not return a value, but it performs an action





Branching and Decision making

- if
- if else
- if elif else
- nested if





LOOPS,LOOPS,LOOPS....

- The For Loop
- The While Loop





For Loop(counting loop)

Designed to process the items of any sequence one by one(lists & strings)

for <variable> in <sequence>: statements_to_repeat

range()

- range(stop)
- range(start,stop)
- range(start,stop,step)



While Loop(conditional loop)

Designed to iterate till a condition remains true

while <logicalExpression> : loop-body





Functions





Functions

A function is a piece of code written to carry out a specified task.

- Built-in
- User Defined





Built-in Functions

These are pre-defined functions in Python that can be used without additional code.

- print()
- input()
- range()....





User-Defined Functions

These are custom functions created by the user to perform a specific task.

def function_name(<parameters>):
 # function body





Learning Resources:

- Pen Testing from freecodecamp(YouTube)
- Cool Cybersecurity experiments NetworkChuck(YouTube)
- CyberSec course from CISCO for indepth learning
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INTRODUCTION TO

OBJECT ORIENTED PROGRAMING





Social media





DSC JSSSTU

Developer Student Club JSS Science and Technology University, Mysore (Mysuru)

