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# Introduction to Python

- Basics of Python
- Purpose
- Application of Python
- Python Installation
- OOPS Concepts



# Python Walk through

- Basic Python Program
- Syntax
- Variable Declaration
- Numbers
- Classes and Objects
- Getting Input from user



# Operators, Comments, Type Casting

- Data type conversion
- Dealing with Operators



# Strings

- String Methods
- String Manipulations
- Operations on String



# Collections

- Mutable Vs Immutable Collections
- List
- List Operations
- Tuple
- Tuple Operations
- Sets
- Sets Methodes
- Dictionary
- Dictionary Operations



# Loops in Python

- For Loop
- If else, Nested if loop
- While loop



# Functions and Parameter Passing

- Function Declaration, Calling
- Parameterized function and Parameter passing





# Lambda Function

- Function Creation and Execution
- Parameter passing to lambda function



# Inheritance

- Single, Multiple, Multilevel Inheritance



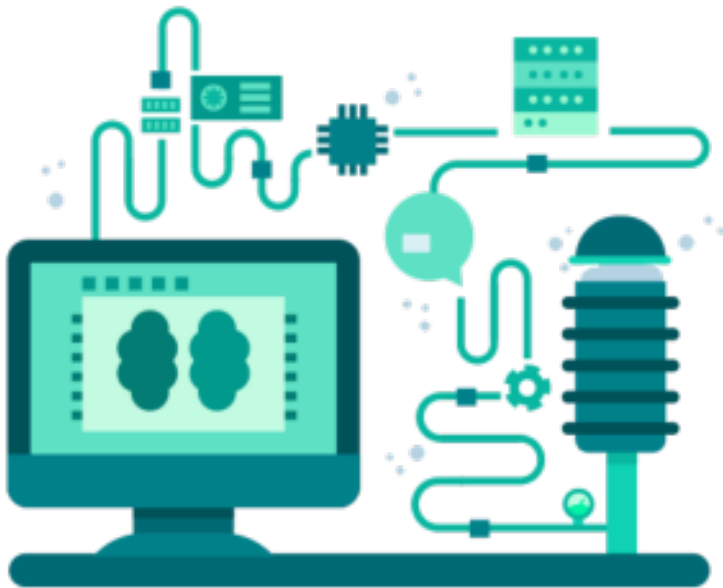
# Constructors

- Default  
Constructors, Parameterizes  
constructors



# Method Overriding and Abstraction and Regular Expression

- Data Abstraction
- Method Overriding
- Working with Regular Expression



# Exception Handling

- Try and catch block
- Finally block



# File Handling

- Reading, Writing file
- Handling file Exceptions




# Generators and Iterators

- With Statement
- Generators



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# Advance Python

- GUI using Python
  - Database Access using Python
  - Python using Unix
- 



# GUI using Python

- Components and Events
- GUI
- Root Component
- Adding buttons



# Database Access using Python

- Installation
- Database Connection
- Commit and Rollback
- Text Widgets



# Python using Unix

- Script Cration
- Communicating to Unix  
Script using python
- Unix Commands



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