

Python week-5

Day1

- Python Introduction
 - Advantages and Disadvantages(interpreted, dynamically typed)
 - Working of Python Interpreter
- Python indentation and Comments
- Python Variables
- Python Data Types
 - Int, Float, Complex
 - List , Tuple, Range
 - Dict
 - Set, Frozenset
 - Bool
- Operators
- Python Condition, if and else Statement
- Python Loop(For and While)
- Practice Loop Questions

Day2

- List
 - Access list items
 - Change list items
 - Add List items
 - Remove list items
 - Loop Lists
 - List Comprehension
 - Important List methods
 - Practice List Questions
- Tuple
 - Access Tuples
 - Update
 - Loop
 - Important List methods
- Python sets

- Access set items
- Add Set items
- Remove set items
- Loop sets
- Important set methods
- Python Dictionary
 - Access items
 - Change items
 - Add items
 - Remove items
 - Loop Dict
 - Important dict methods
 - Practice dict Questions
- String
 - Accessing
 - Slicing
 - Indexing
 - Modify String
 - Concatenate String
 - Important string methods

Day3

- Python Functions
 - Creating a function
 - Calling a function
 - Arguments and number of arguments
 - Arbitrary arguments ,*args
 - Keyword arguments
 - Arbitrary Keyword arguments ,**kwargs
- Recursion- try yourself with examples
- Lambda- try yourself with examples
- Modules
 - Important modules-(ex:standard module,math module ect)
- Decorators- learn with Examples
- Iterators - learn with Examples
- Generators- learn with Examples

Day4 and 5

- Exception Handling(try,except,else,finally)
 - Workout with examples
- Types of variables – global and local
- OOps
 - **Classes and Objects
 - Try with examples
 - Method and Constructor
 - Types of Variables
 - Instance , static , local variable
 - Types of Methods
 - Instance , class ,static
 - Inheritance
 - Polymorphism
 - Abstraction
 - Encapsulation
- **Try questions on all topics till review**

Extra Topics

- File handling
- Filter function
- Map function
- Reduce function
- Magic methods
- Monkey patching

