PYTHON NOTES

Part – 1

❖ Introduction
❖ Identifiers
❖ Data Types
❖ Operators

Part – 2

˅ Flow Control
   o Conditional Statements   (if, if - elif, if - elif - else)
   o Transfer Statements   (break, continue, pass)
   o Iterative Statements   (for, while)
˅ Functions
   o Built-in Functions
   o User Defined Functions
   o Recursive Function
   o Anonymous Function (lambda)
   o Filter Function
   o Map Function
   o Reduce Function
   o Decorators
   o Generators
   o Modules

Part – 3

➢ String
➢ List
➢ Dictionary
➢ Tuple
➢ Set

Part – 4

- OOPs
    - Class and Objects
    - Self-Variable
    - Constructor
    - Destructors
    - Variables (Instance, Static, Local)
    - Methods (Instance, Class, Static)
    - Setter and Getter Method
    - Inheritance
    - Encapsulation
    - Polymorphism
    - Abstraction

Part – 5

- Regular Expression (RegEx)
- Exception Handling
    - Syntax Errors
    - Runtime Errors
    - try, except, finally.
    - Assert Statement
    - Logging Exceptions
- Multi-Threading
    - Daemon Threads
    - Lock and Semaphore
    - Queues

Part – 6
- File Handling
- Python Database Connectivity
- Date and Time