

Thundersoft - python.

1) Learned about Git-hub, Git repositories uploading steps and commands:-

git init

git config -- global user.email "manikantadlggu@gmail.com"

git config -- global user.name "manikanta7070"

git branch -M main

git remote add origin

https://github.com/puneel/github1n1c1

git remote -v

git add.

git status

git commit -m "package creation process"

git status

git log

git push -u origin main

Topics covered:

1. Built in functions (input, print, type, int, float, eval).
2. Arguments for print () and formatting the output
3. Numeric data types. (int, float, complex)
4. Operators (Arithmetic, Relational & logical operators)

✓ Bitwise Operators

✓ Assignment Operators

× Next,

datatypes operators and methods

(1) string datatype operators and (methods) functions

(2) List datatype and operators and functions on list datatype.

(3) Tuple datatype and operations on tuple

(4) set datatypes and operations and methods on sets

(5) Dictionary datatype and methods on dictionaries

frozen sets and Range data types

Next,

✓ Introduction to flow controls statements and simple if

✓ conditional control statements

i, simple if

ii, if else

iii, nested if

iv, elif

✓ for loop and sample programs on for loop

✓ for loop on different datatypes and Examples

✓ Nested for loop and some Example programs.

✓ While loop and some Example programs.

unconditional statements.

✓ Break

✓ continue

✓ pass statements

✓ Introduction on functions and some sample programs on functions.

✓ Types of functions and sample programs.

✓ passing different datatypes (list, set, tuple, dict) as a parameter and some Example programs.

✓ Arguments types (positional, keyword, default and variable length) and some Example programs.

✓ Nested Functions

✓ local and global variables

✓ lambda functions

✓ Function aliasing

✓ filter method

✓ map()

✓ Reduce()

✓ Applying Lambda function in filter, map and reduce (s)

✓ Recursion function in python.

✓ sample recursion programs (factorial, sum of N natural numbers, GCD of 2 Num, fibonacci series and sum of digits)

1. packages (collection of modules (-init-.py, module1.py, module2.py))

2. Example programs on packages

✓ Exception in Handling

✓ some Examples Programs on Exception Handling

✓ Text files and file operations (open, read, write and close)

✓ ~~Text file and file operations (open, read)~~ sample programs on text files.

✓ class

✓ object -

✓ sample programs on class and objects

✓ constructor

✓ instant methods and instant variables

✓ Examples programs on class and objects

Types of variables

✓ Types of Methods

✓ Example program on " & "

Access specifier.

✓ inheritance introduction

✓ simple inheritance

✓ Example programs

Regular Expressions

✓ Functions of Reg Ex module

✓ Example programs.