

PYTHON (FAST TRACK)

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NAME: SATHEESH GUPTA

20 YEARS

C,C++,DS AND ALG

FULL STACK JAVA

FULL STACK PYTHON

Course Timinings : 11:00am:1:30pm (MON-SAT)

Duration : 40 sessions

PYTHON

1.PYTHON

2.PYTHON FOR DATASCIENCE

FULL STACK PYTHON (WEB DEVELOPER)

1. PYTHON

2. PYTHON FOR DATASCIENCE
(NUMPY,PANDAS,MATPLOTLIB)

3. UI (HTML,JAVASCRIPT,CSS,BOOTSTRAP)

4. DJANGO,RESTAPI

5. DATABASES(MYSQL,MONOGODB)

6. TOOLS (GITHUB,DOCKER,..)

AI

DS

WEBDEVELOPMENT

TESTING

WEBSCRAPING

BA/DA

DATA ENG

CLOUD

DEVEOPS

INTERVIEWS

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CODING (MAANG)

LEET CODE

HACKER RANK

CODE CHEF

GEEKS FOR GEEKS

TIME COMPLEX

SPACE COMPLEX

FAQ'S

POC'S

CAPSTONE PROJECT
500+ PROGRAMS 500

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CORE PYTHON:

1. INTRODUCTION TO PROGRAMMING LANGUAGES
2. INTRODUCTION TO PYTHON
3. LANGUAGE FUNDAMENTALS
5. CONTROL STATEMENTS
6. DATA STRUCTURES OR COLLECTIONS
7. FUNCTIONS
8. MODULES
9. PACKAGES

ADV PYTHON

10. OBJECT ORIENTED PROGRAMMING(OOP)
11. EXCEPTION HANDLING
12. REGULAR EXPRESSIONS
13. OPERATING SYSTEM MODULE
14. DATETIME AND CALENDAR
15. PYTHON DATABASE COMMUNICATION
16. FILES
17. GARBAGE COLLECTION
18. GUI PROGRAMMING USING TKINTER
19. NETOWKRING SOCKET MODULE

PYTHON FOR DATASCIENCE

20. NUMPY
21. PANDAS
22. MATPLOTLIB

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NOTES WILL BE UPLOADED IN GOOGLE CLASSROOM

email: pythonbygupta@gmail.com

telegram: [codewithsatishgupta](https://www.instagram.com/codewithsatishgupta)

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INTRODUCTION TO PROGRAMMING LANGUAGES

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Content

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1. What is language?
2. Types of programming languages
3. Translators
 1. Assembler
 2. Interpreter
 3. compiler
4. programming language vs scripting language
5. programming paradigms

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what is language?

language is a source of communication

language acts as mediator between user and computer

language provides set instructions executed by computer to perform specific operation

language is a software, which provides set of instructions to develop other softwares

types of programming languages

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programming languages are classified into 2 categories

1. low level programming languages
2. high level programming languages

low level programming language

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the languages which are understood by computer are called low level programming languages

1. machine language
2. assembly language

machine language

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machine language is called binary language

machine language instructions are in 0's and 1's

machine language is machine dependent, these instructions change from one machine to another machine.

advantage of machine language

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1. not required translator
2. only a language understood by machine
3. efficient

disadvantage

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1. not easy to understand by programmers

assembly language

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assembly language is also low level language but instructions are not given in 0's and 1's.
instruction in assembly language is given in the form mnemonics(verbs)

machine language

10101100

11110000

assembly language

MOVE

LOAD

what is assembler?

assembler is translator used by assembly language to convert instructions of assembly language into machine language.

advantage

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1. easy to understand compare with machine language

disadvantage

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1. required translator

8086 machine language ==> 8086 assembly language

8088 machine language ==> 8088 assembly language

low level languages are non portable or machine dependent.

