

Life Changing Course in Python Programming with Hands on for Kids

- **Course Name:** Python Programming for Kids
- **Course Code:** IT2_P1
- **Instructor:** Chaitanya Patil ([Instructor Profile](#))
- **Frequency:** 2 Sessions per week. 1 Session = 75 minutes. 3 to 4 days gap between two sessions.
- **Fees:** 149 US\$ (Get Discount for Referrals and Group Joining)
- **Duration:** 25 Hours Approx. (10 Weeks Approx.)
- **Note:** First Session is completely FREE and open to all. Make Full Payment only after 1st FREE session and if interested to continue.
- Reach us for more details.
- **Note:** Reach us for Advanced Python Programming, Python for Data Science, Vedic Speed Mathematics (FREE) and all other IT Courses.
- **More Info:** www.Speed16.com/training
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What you need to do before attending First Class?

1. Introduction to Computers & Software: Go through below Presentation; Read it slowly & complete all assignments given at the end.
Link: https://speed16.com/files/training/guides/Intro_to_Computers.pdf
2. Download and Install Anaconda Distribution. Refer below Installation Guide.
Link: https://speed16.com/files/training/guides/Anaconda_Installation_Guide.pdf
(Anaconda Distribution automatically installs Python, Jupyter Notebook IDE and many other Data Science Modules).
3. Reach me if you face any difficulties {+91-97640-58-654; Direct WhatsApp (<https://wa.me/919764058654/?text=Hi>); Email: info@speed16.com}

Note: We are writing Python programs in Jupyter Notebook IDE.

Syllabus in Brief:

Prerequisite:

Sr.	Units	Remarks
1	Introduction to Computers & Software	Follow step 1 given above.

Actual Syllabus in Brief

Unit	Units	Class Number
1	Introduction to Python Programming	1 & 2
2	Brief Introduction to Data Types	3
3	Basic Operators	4
4	Decision Making	5
5	Loops	6 & 7
6	Data Types: List	8
7	Data Types: Tuple	
8	Data Types: Sets	9
9	Data Types: Dictionary	
10	Data Types: String	10
11	Data Types: Number	11
12	Functions	12
13	Modules & Packages	13
14	Object Oriented Programming	14
15	turtle	15
16	TKinter	16
17	Mini Projects	17, 18, 19 & 20
20 Sessions * 1.25 Hrs. = 25 Hours Approx.		

Syllabus in Detail:

Note: After each session, Learners need to complete assignments before attending next session. Assignments are given at the end of each unit. Learners need to send assignments of each unit on chaitanya.1600@gmail.com (for each unit send one ipynb file which consists of all assignments of that particular unit).

Unit 1: Introduction to Python Programming	
1	Natural Languages & Programming Languages
2	Why to study Programming Languages?
3	What is Python?
4	Features of Python
5	Python Ecosystem
6	Application Areas of Python (Python is Used for)
7	Installation of Python & Jupyter Notebook (Using Anaconda Distribution)
8	Python Shell
9	Hello World Program in Python
10	Some Simple Python Programs
11	Variables; Multiple Assignments
12	Python Identifiers
13	Reserved Words (Keywords)
14	Steps in Learning Hindi/English & Python
15	Quotation in Python (‘ ’ “ ” “”” “”””)
16	Strings: Indexing, Concatenation & Repetition
17	Comments in Python
18	Blank Lines in Python
19	Multiple Statements on a Single Line
20	Waiting for User (input function)
21	Some Useful Functions: print, input, id, type, len, int, float
Assignments (Write Programs with Comments)	
A1	Write a Hello World Program
A2	Read Information (Name, Age, Address, Salary etc.) from user and display them.
A3	Read two names, two integers & three float numbers from user and display them.
A4	Write a program that asks the user for their name and then prints welcome message. Expected Input & Output: Enter Your Name: Ganesh Hi Ganesh, Welcome to Speed16 Academy
A5	Write a program to add two numbers.
A6	Write a program to add, subtract, multiply and divide two numbers.
A7	Calculate area of Rectangle (area = b*h)
A8	Calculate area of a circle (area = 3.14 * r * r)

A9	Calculate Simple Interest ($SI = p * n * r / 100$)
A10	Ask user to read a string. Display the String & its length (Hint: Use len() function)
A11	Read a number (say n) from user. Print 'n' number of hashes (#) between * and *.Examples: For n=3; Output is: *###* For n=5; Output is: *#####*
A12	Display float number up to 3 decimal places using print() Hint: print('% .3f' % a)

Unit 2: Brief Introduction to Data Types

1	Numbers (int, float) (complex, bin, oct, hex)
2	Strings
3	Lists
4	Tuples
5	Dictionary
6	Sets
7	Data Type Conversion (Implicit and Explicit)
8	Some Functions: sum, len, sqrt, dir, dir(math), dir(str), dir(list), dir(tuple), dir(dict), dir(set), __sizeof__(), min(), max()

Assignments (Write Programs with Comments)

A1	Create a List of 10 elements with different data types. Print it. Find its Length. Convert it to Tuple and Print it. Print its first, 3 rd & 5 th element. Print Data Type of 6 th Element.
A2	Create a Tuple of 10 elements with different data types. Print it. Find its Length. Convert it to Set and Print it.
A3	Write a program to delete an element from a tuple.
A4	Create a Set of 10 elements with different data types and with some duplicate values. Print it. Find its Length. Convert it to List and Tuple. Print them.
A5	Create a Tuple of 10 elements with integer and float data types. Print it. Find its Length. Find sum of all elements. Also find smaller and larger element. (Hint: use sum, min & max).
A6	Create a dictionary. Print it. Print only Keys. Print only Values. Print its length. Update values. Clear all dictionary.
A7	Create a dictionary and Print it.
A8	Create a dictionary. Find sum of all the items in a dictionary. (Hint: sum(a.values()))
A9	Create two Strings. Print them. Concatenate them. Find Length. Print first string 3 times.
A10	Create two Strings. Perform various slicing operations on them.

NOTE: All registered members are going to get Complete Syllabus through email.

Contact:

Chaitanya Patil

Mobile: +91-97640-58-654

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Direct Telegram (<https://t.me/CP512>)

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