Life Changing Course in Python Programming
with Hands on for Kids (Level - 1)

- **Course Name:** Python Programming for Kids
- **Level:** 1
- **Course Code:** J1
- **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
- **Contact:** info@speed16.com   **OR** +91-97640-58-654 **OR** Direct Whatsapp (https://wa.me/919764058654/?text=Hi) **OR** Direct Telegram (https://t.me/CP512)

- **Speed16 Academy:** Online School, Sports & IT Training Academy www.Speed16.com
- **Vedic Speed Mathematics:** Learn Ancient India's Amazingly Compact, Powerful and World's Fastest Mental Calculation System @just **₹: 99 (1.3 US$).**
- Paperback, eBook, Video Course, Free Workbook & Online Interactive Training on **Vedic Speed Mathematics, C, Python Programming & PSAT/NMSQT.**
- www.Speed16.com/learn
- Coding classes for Kids, Online Python Programming (Separate Batches for Software Professionals and US/Europe High School Students) www.Speed16.com/training
- IT Training: www.Speed16.com/training
- Contact: Chaitanya Patil info@speed16.com +91-97640-58-654 Direct Whatsapp

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 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.

Syllabus in Brief:

Prerequisite:

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

Actual Syllabus:

Unit	Units	Class Number
1	Introduction to Python Programming	1,2,3
2	Brief Introduction to Data Types	4
3	Basic Operators	5
4	Decision Making	6,7
5	Loops	8,9,10
6	Data Types: List	11, 12
7	Data Types: Tuple	13,
8	Data Types: Sets	13
9	Data Types: Dictionary	14
10	Data Types: String	15, 16
11	Data Types: Number	17
12	Mini Projects	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, 3rd & 5th element. Print Data Type of 6th 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.

Mini Projects	
1	Calculator Project
2	Number Guessing Game in Python
3	Random Password Generator
4	YouTube video downloader

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

Contact:
Chaitanya Patil
Mobile: +91-97640-58-654
Direct WhatsApp: https://wa.me/919764058654/?text=Hi
Direct Telegram (https://t.me/CP512)
Email: info@speed16.com
Website: www.Speed16.com/training

Vedic Speed Mathematics (Paperback, eBook, Video Course, FREE Work Book and FREE Online Training) Link: www.Speed16.com/learn

- 🔸 **Speed16 Academy:** Online School, Sports & IT Training Academy www.Speed16.com
- 🔸 **Vedic Speed Mathematics:** Learn Ancient India's Amazingly Compact, Powerful and World's Fastest Mental Calculation System @just **₹: 99 (1.3 US$)**.
- 🔸 Paperback, eBook, Video Course, Free Workbook & Online Interactive Training on **Vedic Speed Mathematics, C, Python Programming & PSAT/NMSQT.**
- 🔸 www.Speed16.com/learn
- 🔸 Coding classes for Kids, Online Python Programming (Separate Batches for Software Professionals and US/Europe High School Students) www.Speed16.com/training
- 🔸 IT Training: www.Speed16.com/training
- 🔸 Contact: Chaitanya Patil info@speed16.com +91-97640-58-654 Direct Whatsapp

Vedic Speed Mathematics & Python:
--
Anything & Everything at just ₹:99 (1.3US$)
--
10,000+ Satisfied Learners & Counting..
--
Vedic Speed Mathematics:
{Books, eBooks, Quizzes, Video Course (52 Videos), Study Materials, Workbook, Online Training & Certificate}
Link: www.Speed16.com/learn/vsm
--

Python:
{Books, eBooks, Quizzes, Video Course, Study Materials, Workbook, & Certificate}
Link: www.Speed16.com/learn/python

--

Online Interactive Maths, Python & all IT Training (For Students & IT Professionals)
Link: www.Sped16.com/training

--

Download this PDF File for Details:
Link: www.Speed16.com/files/vm/vm.pdf

--

Join to get FREE Updates & FREE Study Materials:
FB Page:
www.facebook.com/SpeedMaths99
Telegram Channel:
https://t.me/SpeedMaths

--

Contact:
Mr. Chaitanya Patil
www.Speed16.com/learn
+91-97640-58-654
info@speed16.com
Direct WhatsApp (https://wa.me/919764058654/?text=Hi)

--

Sharing is Caring. Share with All. □□