

## Life Changing Course in Python Programming with Hands on for Kids

- **Course Name:** Python Programming for Kids
- **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)
- **Get FREE eBook and Video Course**
- **Duration:** 25 Hours Approx. (10 Weeks Approx.)
- **Note:** First Session is completely FREE and open to all. Make Full Payment only after 1<sup>st</sup> 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](http://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](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](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](mailto: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 above given step 1

### 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
11	Data Types: Number	12, 13
12	turtle	14, 15
13	TKinter	16
14	Mini Projects	17, 18, 19, 20
20 Sessions * 1.25 Hrs. = 25 Hours Approx.		



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 <sup>rd</sup> & 5 <sup>th</sup> element. Print Data Type of 6 <sup>th</sup> 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.

All registered members are going to get complete syllabus through email.

**Contact:**

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