Python For Absolute Beginners

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# Introduction

* Python is the scripting language created in *C*.
* Its easy to use compared to other programming languages like *Java*, *C*, *C++* and *Golang*.
* It has a rather extensive standard library which includes packages like *urllib* (library to make requests on web), *argparse* (my favourite, is used to parse command line arguments).
* It has a lot, I mean a lot of creative external packages like (*colorama*, *requesets*, *pyside2*, *numpy*, *matplotlib*, *astropy*, etc.) just a names of few!

# Writing our first program in python

1. Install text editor for your platform (like *notepad++*, *vscode, sublime text, geany, etc.*)
2. Install python from python’s website or some package manager for your platform.
3. Create folder named *python-tutorial.*
4. Into that folder create file named *hello.py.*
5. Open file *hello.py* in in favourate text editor.
6. Type *print(“Hello World!”).*
7. Change directory to *python-tutorial* in terminal or command line.
8. Type *python3 hello.py* in terminal or command line.
9. It should show text *Hello World!*.

# Variables

Variables are the special type of containers that store some kind of a value, example:

integer\_var = 5

character\_var = ‘a’

boolean\_var\_one = True

boolean\_var\_two = False

string\_var = “Hello World!!”

formated\_string\_var = f“Number: {integer\_var}”

As you can there are multiple types of variable that can be declared and used, types are (integer, boolean, character, string, formated string).

You can use variables in your code like this:

print(“String: ”, string\_var)

print(“Integer: “, integer\_var)

print(“Character: “, character\_var)

print(“Boolean True: “, boolean\_var\_one)

print(“Boolean False: “, boolean\_var\_two)

print(“Formated string: ”, formated\_string\_var)

You can re-declare the variables like this:

integer\_var = 20

character\_var = ‘b’

boolean\_var\_two = True

boolean\_var\_one = False

string\_var = “Shivansh!”

formated\_string\_var = “Hello {string\_var}”

You can new variable by using existing variable like this:

my\_age = integer\_var

my\_name = string\_var

world\_sucks = boolean\_var\_two

# Project 1

* Create file *variables.py* in your project folder.
* Create variables like this (replace variable values as you want):

integer\_var = 20

string\_var\_one = “Shivansh”

string\_var\_two = “Shrivastava”

* Declare more variables with names of existing variables:

my\_age = integer\_var

my\_name = string\_var\_one

my\_surname = string\_var\_two

my\_full\_name = f”{my\_name} {my\_surname}”

* Use *print* function to show them in the terminal or command line:

print(“My age: “, my\_age)

print(“My name: “, my\_name)