Introduction to Coding World

Jayanth Apagundi

Overview

- **Purpose of Coding and Programming**
- **What is Python?**
- **Installation of Python**
- **Getting started with Python**

What’s/Why’s of Coding and Programming

- ***Coding*** **is a set of instructions written in such a way that machine can understand and give us the desired output.**

- ***Programming*** **is a process that creates programs that involve the confirmation of codes.**

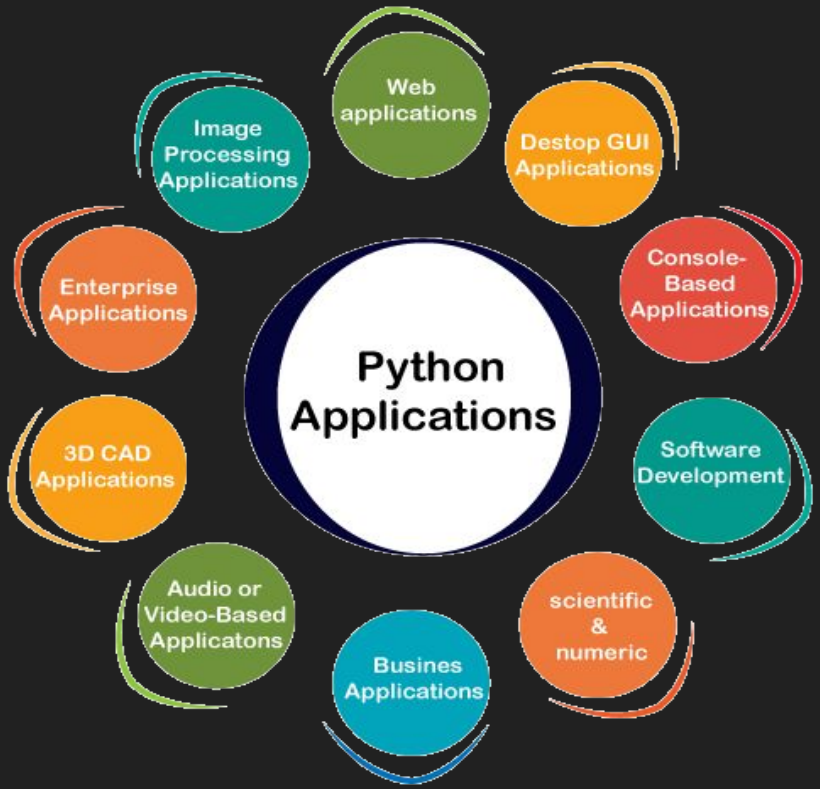
What is Python ???

- ***Python is a popular programming language. It was created by Guido van Rossum and released in 1991***

- ***Python works on different platforms (Windows/ Mac/ Linux etc) and has simple syntax(grammar), It's interpreted language- Means that code can be executed as soon as it's written***

- ***Python relies on indentation and using white spaces and it was designed for readability and has some similarities to English Language with impact of mathematics***

Real World Applications of Python



Installation of Python

- *https://www.python.org/downloads/*

- *There are multiple version of Python software available- We can download any of it as per requirements. (it is preferred that we download them most latest and stable version of it)*

Getting Started with Python

- *How do we verify once installed- ???*
- *Open ‘command prompt’ and type in ‘python –version’ [enter]*

- *Understanding the Indentation and Structure*

- *Understanding the comments usage in the code*
- *# : For single line comment*
- *“ “ “ : For multiline comments*

- *Python Variables and its types (Cannot be Keywords)*
- *Variable names are case sensitive and must start with letter or underscore i.e:_*
- *Should not start with numbers/special characters*
- *Should not have spaces*
- *Most followed techniques- Camel Case, Pascal case, Snake Case*

- *Python Variables and its types (Cannot be Keywords)*
- *Assigning multiple values (one to one, many to one, unpacking)*
- *Output Variables, Global and Local variables*

- *Few Exercises on Python Variables:*
- *Create a variable named* carname *and assign the value* Benz *to it.*
- *Create a variable called z, assign x + y to it, and display the result.*
- *Identify if the variable name is right- ???*
    2my-first_name
    My Age
    print
    Last_name

- *To be continued…*