**Python as a multi paradigm language**

Python is a high level, general purpose, integrated, multi paradigm language. As a multi paradigm language it incorporates object-oriented, structured, functional and procedural paradigm.

Python as a multi-paradigm programming language means that it can be classified based on their features.

Below are short notes on each of the multi paradigm languages

**Object Oriented-programing**

This is a feature that has to do with objects that contains data and code. These objects can be variables, functions, data structure, or a method with a particular instance of a class and can also be a combination of functions, variables and data-structures.

**Structural**

Python as a multi-paradigm language aims at improving the clarity and uniqueness of the computer program by executing structural control flow such as sequence, selection (if, then, else), iterations (while, repeat, for or do until) and recursions.

**Functional**

Python as a functional paradigm deals with functional styles, and it is a declarative programing paradigm which deals with “what to solve”. Programs are constructed by applying composing functions i.e. simple functions used to build complex ones.

**Procedural**

A type of routines or subroutines with computable steps to be carried out. Python as a multi-paradigm has a procedural programming feature in that it brings that a programming task into a collection of variables, data structures and subroutines.