PYTHONISAPOPULARPROGRAMMINGLANGUAGE:

- When**Guido vanRossum**wascreatingpython inthe 1980s,hemadesureto designit tobea general-purpose language. One of the main reasons for the popularity of python would beits simplicity in syntax so that it could be easily read and understood even by amateurdevelopersalso.
- Python was created more than 30 years ago, which is a lot of time for any community ofprogramminglanguagetogrowandmatureadequatelytosupportdevelopersrangingfrombegi nnerto expert levels.
- There are plenty of documentation, guides and Video Tutorials for Python language areavailablethatlearner anddeveloperofanyskill leveloragescanuse andreceivethesupport
- Thepythonlanguageisoneofthemostaccessible programminglanguages availablebecauseit has simplified syntax and not complicated, which gives more emphasis on naturallanguage.
- Due to its ease of learning and usage, python codes can be easily written and executed muchfasterthan other programminglanguages.

FRAMEWORKSUSEDWITHPYTHON:

1. DJANGO

Django is an open-source, full-stack Python framework. It follows the DRY (Don't RepeatYourself) principle. Django comes equipped with a vast line of ready-to-use libraries. Some ofits most exceptional features are authentication, URL routing, template engine, object-relationalmapper(ORM), anddatabaseschemamigrations.Together,thesemakeDjangohighlyscalable,fast,and versatile.

2. PYRAMID

Another open-source Python framework on our list is Pyramid. It runs on Python 3 and aims toaccomplishasmuchaspossiblewithminimalcomplexity.PerhapsthebestfeatureofPyramidisits ability to run well with both small and large applications. Some of the key highlights of thisframework include Routes, HTML form validation and generation, text-based templating, URLmappingbased on Routes configuration via WebHelpers, andURLdispatch.

3. TURBOGEARS

TurboGears is an open-source, data-driven, full-stack Python framework. It incorporates some ofthe best components of other Python frameworks and comes with many useful libraries. It allowsdevelopersto build data-driven web applications veryfast.

4. WEB2PY

Web2py is a highly scalable, open-source full-stack Python framework. It comes with itsindividual web-based IDE that includes a code editor, debugger, and a one-click deploymentfeature.

5. CHERRYPY

CherryPyisoneoftheoldestopen-source,object-orientedPythonmicroframeworks.Followinga minimalistic approach, CherryPy is designed for extensibility. It includes mechanisms for hookpointsandextensions.Moreover,the“cherry” ontopisthatanyCherryPy-basedwebapplicationisa standalonePythonapplicationhavingitsuniqueembeddedmulti-threaded webserver.

6. FLASK

FlaskisaPythonmicroframeworkavailableundertheBSDlicense.ItdrewinspirationfromtheSinatra Ruby framework. Flask requires Jinja2 template and Werkzeug WSGI toolkit to run. Ithas a lightweight and modular design that makes it easily adaptable to a wide range ofdevelopmentneeds.

7. SANIC

Sanic is an Asynchronous framework built on top of uvloop. It is a simple Python frameworkdevelopedexplicitlyforofferingfastHTTPresponsesviaasynchronousrequesthandling.SinceSanic supports asynchronous request handlers, it is compatible with Python 3.5’s ‘Async’ and‘Await’functions. This helps to enhanceitsspeedfurther.