1. What are the key features of Python?

ANS: Python is having some key feature as follows:

1. Python is general purpose language.
2. It is high level programming language.
3. Open-source
4. Python in interpreted language.
5. Python is object oriented and also function oriented language.
6. It is dynamically typed language.
7. Python is scripting and interactive language.
8. Python is easy to learn language.
9. It is having very rich libraries.

These are some key features of python.

1. Python is an interpreted language. Explain.

Ans: A interpreted language is a language in which the code directly gets executed without getting converted into machine language. Python code directly gets executed without getting converted into machine language that’s why python is interpreted language.

1. What are the benefits of Python?

Ans: Python benefits:

1) Easy to learn, write and code

2) Dynamic typing

3) Free open source

4) Rich libraries

5) Wide range of applications

6) Vast community

1. What are the applications of Python?

ANS: 1) Web development and internet development:

We can use python to develop web applications. It provides libraries to handle protocols such as HTML, XML , JSON, Email processing etc.

2) Machine learning and artificial intelligence

Python along with its inbuilt libraries and tools facilitates the development of AI and ML

algorithms. Some of the inbuilt tools that enhance AI and ML processes are:

a) Numpy

b) Scipy

c) Seaborn

3) Data science :

Data science involves data collection , data sorting, data analysis and data visualization. Python provides amazing functionality to tackle statistics and complex mathematical calculations.

4) Automation:

5) Desktop GUI :

The GUI stands for the Graphical User Interface , which provides a smooth interaction to any application. We use python to program desktop applications.

6) Software development

Python is just the perfect option for software development.popular application like Google Netflix , and Reddit all use python.

7) Web scrapping :

Web scrapping is an automated process used to extract information from websites in an easier and faster way. The information is used by researchers, organisations and analyst for a wide variety of tasks.

These are some applications of python.