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BSCS3C

Introduction to python

● Features of Python Language

* Free and Open Source.
* Easy to code.
* Easy to Read.
* Object-Oriented Language.
* GUI Programming Support.
* High-Level Language.
* Large Community Support.
* Easy to Debug.

● Advantages of Python

What is Python and its advantages?

Some of the main benefits of Python include its ease of use, concise and straightforward syntax, and vast libraries. Other Python advantages are its portability, versatility, large user base, and free & open source license. Some of the disadvantages of Python include its slow speed and heavy memory usage.

● Disadvantages of Python Programming

Language

* Slow Speed. Python is a dynamically typed and interpreted language, as previously mentioned.
* Not Memory Efficient. Python must make a small tradeoff to make development simpler.
* Weak Mobile Computing. Most of the time, server-side programming calls for Python.
* Database Access.
* Runtime Error.

● Applications of Python

What is the application of Python language?

Python is commonly used for developing websites and software, task automation, data analysis, and data visualisation. Since it's relatively easy to learn, Python has been adopted by many non-programmers, such as accountants and scientists, for a variety of everyday tasks, like organising finances.

● What is Python?

Python is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Python is dynamically typed and garbage-collected. It supports multiple programming paradigms, including structured, object-oriented and functional programming.

● Why Python?

Due to its nature of excellent adapting features and easy learning flexibility, Python has become popular among programmers. This high-level programming language is versatile, easy to build applications, analyze data, and easy to visualize and automate tasks.

● How to install Python?

* Step 1: Select Python Version.
* Step 2: Download Python Executable Installer.
* Step 3: Run Executable Installer.
* Step 4: Add Python to Path (Optional)
* Step 5: Verify Python Was Installed on Windows.
* Step 6: Verify PIP Was Installed.
* Step 7: Install virtualenv (Optional)

● How to install PyCharm

Standalone installation﻿

* Download the installer .exe. note. There is a separate installer for ARM64 processors. ...
* Run the installer and follow the wizard steps. Mind the following options in the installation wizard. 64-bit launcher: Adds a launching icon to the Desktop.

● Basic Python Program Structure

A Python program is a set of instructions that tell a computer what to do. It's like a recipe for a computer.

Python programs are made up of statements, which are lines of code that tell the computer to perform a specific task. Statements can be grouped together into blocks, which are indented sections of code.

● Basic Python Program

Explanation

Python has a simple syntax similar to the English language. Python has syntax that allows developers to write programs with fewer lines than some other programming languages. Python runs on an interpreter system, meaning that code can be executed as soon as it is written. This means that prototyping can be very quick.