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Description of Class Case Study:

The topic for my case study was python programming language. Python is a general purpose, object oriented, high level programming language. It was created by Guido van Rossum, and released in 1991. The language places strong emphasis on code reliability and simplicity so that the programmers can develop applications rapidly. It supports cross platform development and is open source.

Python is used for web development(server-side), software development and system scripting. It’s syntax is similar to the English language.

It is used to handle big data and perform complex mathematics. It can connect to database systems.

Variables are containers for storing data values. Python has no command for declaring a variable. A variable is created the moment we first assign a value to it. In programming, data type is an important concept. Variables can store data of different types.

Strings in python are surrounded by either single quotation marks, or double quotation marks.

Looping through a string is possible in python using for loop.

Lists are used to store multiple items in a single variable. Lists are created using square brackets.

List items are ordered, changeable, and allow duplicate values. List items are indexed, the first item has index 0.