1. To what does a relative path refer?

A relative path refers to a file or directory location that is relative to the current working directory. Unlike an absolute path, which specifies the complete path from the root of the file system, a relative path specifies the location in relation to the directory you are currently in.

1. What does an absolute path start with your operating system?

An absolute path specifies the complete path to a file or directory from the root of the file system. The starting point of an absolute path varies depending on the operating system

1. What do the functions os.getcwd() and os.chdir() do?

The os module in Python provides functions for interacting with the operating system. The os.getcwd() and os.chdir() functions are used to manage the current working directory.

1. What are the . and .. folders?

In file systems, the . and .. folders are special directory entries that provide a way to navigate through directories more easily.

1. In C:\bacon\eggs\spam.txt, which part is the dir name, and which part is the base name?

In the path C:\bacon\eggs\spam.txt, the directory name and base name can be identified as follows:

Directory Name: C:\bacon\eggs\

Base Name: spam.txt

1. What are the three “mode” arguments that can be passed to the open() function?

The open() function in Python allows you to open files in different modes, depending on what you want to do with the file. Here are three common mode arguments:

(Read Mode)

**Purpose**: Opens a file for reading. The file must exist.

**Usage**: This is the default mode. You can omit it if you only intend to read the file.

1. What happens if an existing file is opened in write mode?

Data Loss: All previous data in the file will be lost if the file is opened in write mode.

File Creation: If the file does not exist, a new file with the specified name will be created.

1. How do you tell the difference between read() and readlines()?

read(): Returns the entire file content as a single string.

readlines(): Returns the file content as a list of strings, each representing a line in the file.

1. What data structure does a shelf value resemble?

A shelf value in Python resembles a dictionary. The shelve module in Python provides a simple and convenient way to store Python objects in a file using a dictionary-like API. Here’s how shelf values function similarly to dictionaries: