1. To what does a relative path refer?

ANSWER.

A relative path refers to the location of a file or directory relative to the current working directory or another specified directory.

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

ANSWER.

In most operating systems, an absolute path starts with the root directory of the file system. The root directory is the top-level directory from which all other directories and files are organized.

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

ANSWER.

The functions `os.getcwd()` and `os.chdir()` are part of the Python `os` module and are used for working with file paths and directories in the operating system.

4. What are the . and .. folders?

ANSWER.

In most file systems, including those used by Unix-based operating systems (such as Linux and macOS) and Windows, the `.` and `..` folders are special directory entries used to refer to specific directories relative to the current directory.

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

ANSWER.

- Directory Name (dir name): `C:\bacon\eggs`

- Base Name: `spam.txt`

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

ANSWER.

Read, write and append mode.

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

ANSWER.

If an existing file is opened in write mode ("w") using the `open()` function in Python, the file's existing contents are truncated (i.e., cleared) before writing. This means that any data previously stored in the file will be erased, and the file will be empty after opening it in write mode.

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

ANSWER.

- `read()` returns the entire contents of the file as a single string.

- `readlines()` returns all lines from the file as a list of strings, where each string represents a line from the file.

9. What data structure does a shelf value resemble?

ANSWER.

The value stored in a shelf resembles a dictionary-like data structure. A shelf is essentially a persistent dictionary provided by the `shelve` module in Python.