**PYTHON ASSIGNMENT - 9**

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.

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

ANSWER:

An absolute path starts with the root directory of the file system on your operating system. For example, on Windows, it typically starts with a drive letter followed by a colon (C:\), while on Unix-like systems, it starts with a forward slash (/).

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

ANSWER:

os.getcwd() returns the current working directory as a string. os.chdir() changes the current working directory to the path specified as an argument.

4. What are the . and .. folders?

ANSWER:

The . folder represents the current directory, while the .. folder represents the parent directory (the directory containing the current directory).

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

ANSWER:

C:\bacon\eggs is the directory name, and spam.txt is the base name.

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

ANSWER:

'r': Read mode (default). Opens the file for reading.

'w': Write mode. Opens the file for writing, truncating the file first.

'a': Append mode. Opens the file for writing, appending to the end of the file if it exists.

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

ANSWER:

If an existing file is opened in write mode ('w'), its contents are overwritten with the new data. If the file does not exist, a new file is created.

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

read() reads the entire contents of the file into a single string, while readlines() reads the contents of the file line by line into a list of strings, with each element representing a line.

9. What data structure does a shelf value resemble?

A shelf value resembles a dictionary data structure. It is a persistent, dictionary-like object that stores key-value pairs on disk.