1. To what does a relative path refer?

Answer : A relative path refers to a file or directory location relative to the current working directory, rather than specifying the full path from the root.

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

Answer : An absolute path starts with the root directory of the file system. On Unix-like systems (Linux, macOS), it starts with /. On Windows, it typically starts with a drive letter followed by a colon (e.g., C:\).

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

Answer :  os.getcwd(): Returns the current working directory as a string.

1.  os.chdir(path): Changes the current working directory to the specified path.
2. What are the . and .. folders?

Answer :

 .: Refers to the current directory.

 ..: Refers to the parent directory of the current directory.

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

Answer :  **Directory name**: C:\bacon\eggs

 **Base name**: spam.txt

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

Answer :

The three common "mode" arguments for the open() function are:

1. 'r': Read (default mode) – Opens a file for reading.
2. 'w': Write – Opens a file for writing (creates the file if it does not exist or truncates it if it does).
3. 'a': Append – Opens a file for writing (appends to the end of the file if it exists, creates it if it does not).
4. 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 truncated (erased), and the file is overwritten with new content. If the file does not exist, it is created.

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

Answer :

 **read()**: Reads the entire content of the file as a single string.

 **readlines()**: Reads the entire content of the file and returns a list of lines, where each line is a string in the list.

1. What data structure does a shelf value resemble?

Answer : A shelf value resembles a dictionary. It allows for key-value pair storage and retrieval, similar to how a dictionary functions.