- To what does a relative path refer?
 Solution 1: Relative paths are relative to the current working directory.
- 2. What does an absolute path start with your operating system?

 Solution 2: Absolute path starts with the root folder, such as / or C:\.
- What do the functions os.getcwd() and os.chdir() do?
 Solution 3: os.getcwd(): this function returns the current working directory os.chdir(): it changes the current working directory
- 4. What are the . and .. folders?

 Solution 4: The . folder is the current folder, and .. is the parent folder.
- 5. In C:\bacon\eggs\spam.txt, which part is the dir name, and which part is the base name? **Solution 5:** C:\bacon\eggs is the dir name, while spam.txt is the base name.
- 6. What are the three "mode" arguments that can be passed to the open() function?

 Solution 6: The string 'r' for read mode, 'w' for write mode, and 'a' for append mode.
- 7. What happens if an existing file is opened in write mode?

 Solution 7: An existing file opened in write mode is erased and completely overwritten.
- 8. How do you tell the difference between read() and readlines()?

o/p: first line

read() method returns the file's entire contents as a single string value. In other words, read() reads the entire contents of the file into a string. We can also give read() an optional argument, which designates the number of characters to read from the file:

```
with open("test.txt", "r") as file:
    content = file.read(15)
    print(content)
o/p: first line
seco

readlines(): method returns a list of strings, where each string is a line from the file's
contents. For example:
with open("test.txt", "r") as file:
    lines = file.readlines()
    print(lines)
o/p: ['first line\n', 'second line\n', 'third line\n']

Example of readline():
with open("test.txt", "r") as file:
    line = file.readline()
print(line)
```

9. What data structure does a shelf value resemble? Solution 9: A shelf value resembles a dictionary value; it has keys and values, along with keys() and values() methods that work similarly to the dictionary methods of the same names.