**PYTHON BASIC ASSIGNMENT\_9 - SUBMITTED BY SAMUEL DEVDAS**

1. To what does a relative path refer?

Ans. The realtive path is the path of any reference file with respect to the Present path or present working directory(pwd).

Eg. If my pwd is C:[\\Users\\samue](../../../..//samue), and there is a jupyter notebook file(untitled.ipynb) in C:\\Users\\samue\\jupyter files\\task\\untitled.ipynb, then the relative path of that ‘untitled.ipynb’ is \\jupyter files\\task\\ untitled.ipynb .

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

For the same file question 1 above, the absolute path of the file ‘untitled.ipynb’ with respect to the operating system is C:\\Users\\samue\\jupyter files\\task\\untitled.ipynb .

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

Ans. After importing os module in python, os.getcwd() function call return the current working directory.

Import os

os.getcwd()

Output: 'C:\\Users\\samue\\jupyter files'

os.chdir('C:\\Users\\samue’) function call changes the current working directory from 'C:\\Users\\samue\\jupyter files' to the path specified between the parentheses.

os.chdir('C:[\\Users\\samue](../../../..//samue)’)

Output: 'C:\\Users\\samue

4. What are the . and .. folders?

Ans. ‘..’ folder is the parent directory or the root directory of the current instance. ‘.’ folder is the present working directory or current directory of the working instance.

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

Ans. Here, basename is ‘spam.txt’ and dirname is C:\bacon\eggs

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

Ans. Three common modes are: 'r' mode means open for reading in text

mode. 'w' for writing , 'x' for creating and writing to a new file.

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

Ans. The existing file is erased and completely overwritten.

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

Ans. ‘read()’ function callout by default reads all the characters written within the file till end of the file. If character reading size is specified between the parenthesis, it will read only the range of specified size Eg. read(3) will read the characters in the range(0,3) starting at 0, ending at 2. For the string ‘the end’ this amounts to ‘the’ as the output.

Whereas ‘readline()’ function call out will read line by line starting from the first line by default.

9. What data structure does a shelf value resemble?

Ans. 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.