Q 5. Write python syntax and explain following functions

1. **open(“file”,”x”)**

The open() function opens a file, and returns it as a file object.

Syntax : **f = open(file, mode)**

**file :** The path and name of the file

**mode :** A string, define which mode you want to open the file. For e.g.: {r, w, a, x, r+, w+, rb, wb}

1. **writelines()**

The writelines() method writes the items of a list to the file. Where the texts will be inserted depends on the file mode and stream position.

"a": The texts will be inserted at the current file stream position, default at the end of the file.

"w": The file will be emptied before the texts will be inserted at the current file stream position, default 0.

Syntax: **file.writelines(*list*)**

***list:*** The list of texts or byte objects that will be inserted.

1. **read()**

The read() method returns the specified number of bytes from the file. Default is -1 which means the whole file.

Syntax: **file.read()**

1. **readline()**

The readline() method returns one line from the file. We can also specify how many bytes from the line to return, by using the size parameter.

Syntax: **file.readline(*size*)**

***size*:** Optional. The number of bytes from the line to return. Default -1, which means the whole line**.**

1. **readlines()**

The readlines() method returns a list containing each line in the file as a list item.

Syntax: **file.readlines(*hint*)**

***hint:*** Optional. If the number of bytes returned exceed the hint number, no more lines will be returned. Default value is -1, which means all lines will be returned.