# Q1. Which function is used to open a file? What are the different modes of opening a file? Explain each mode of file opening.

Python, we use the open() method to open files.

Diffrent Mode of opening file : 1) r (read) : Open for reading 2) w (write) : open for writing, truncating the file first 3) x: Create a new file and open it for writing 4) a : Open for writing appending to the end of the file if it exists 5) b : Binary mode 6) t : Text Mode 7) + : Open a disk file for updating 8) U : Universal newline mode

### Q2. Why close() function is used? Why is it important to close a file?

it ensures that any pending writes that might be in a cache are completed and committed to the file, and also frees up memory that the operating system has been using to keep track of file information so that it can read and write to it efficiently, ensure that other programs don't try to write to it at the same time

# Q3. Write a python program to create a text file. Write 'I want to become a Data Scientist' in that file. Then close the file. Open this file and read the content of the file.

## In [1]:

```
file = open("text.txt","w")
file .write("I want to become a Data Scientist")
file.close()
file = open("text.txt","r")
file.read()
```

#### Out[1]:

'I want to become a Data Scientist'

#### Q4. Explain the following with python code: read(), readline() and readlines().

read(): method will returns the specified number of bytes from the file. Python readline() method will return a line from the file when called. readlines() method will return all the lines in a file in the format of a list where each element is a line in the file.

# Q5. Explain why with statement is used with open(). What is the advantage of using with statement and open() together?

The with statement works with the open() function to open a file.with statement is used in exception handling to make the code cleaner and much more readable.Unlike open() where you have to close the file with the close() method, the with statement closes the file for you without you telling it to.

## Q6. Explain the write() and writelines() functions. Give a suitable example.

Write(): method displays the output but do not provide a new line character.

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