

Name-Rakesh

In [ ]: """  
 Que 1-Q1. Which function is used to open a file? What are the different modes of opening a file? Explain each mode of file opening.

Ans 1-

open() function are used to open a file

| Mode | Meaning           | Description   |
|------|-------------------|---|
| r    | Read              | Only reading Possible.not create file if not exit   |
| w    | write             | only writing possible .create file if not exit otherwise erase the old content of file and open as a blank file |
| a    | append            | -only writing possible create file if not exit otherwise open file and write from the end of file               |
| r+   | Reading+writing   | -R & w possible create file if not exit. overwriting exiting data.used for modify content                       |
| w+   | Reading+writing   | -R&w possible .create file if not exit.erase old content  |
| a+   | Reading+Appending | -R & w possible create file if not exit.Append content at the end file  |

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In [ ]: """  
 Que 2-Why close() function is used? Why is it important to close a file?  
 Ans 2-The close() function shall deallocate the file descriptor indicated by fildes. To deallocate means to make the file descriptor available for return by subsequent calls to open() or other functions that allocate file descriptors.  
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In [10]: """  
 Que 3-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.

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"""
f=open("text.txt",'w')
f.write('I want to become Data scientis')
f.close()
f=open("text.txt",'r')
f.read()

```

Out[10]: 'I want to become Data scientis'

In [ ]: """  
 Que 5-  
 Explain why with statement is used with open().  
 What is the advantage of using with statement and open() together?

Ans 5-

The with statement works with the open() function to open a file. Unlike open() where we have to close the file with the close() method, the with statement closes the file for us without you telling it to. This is because the with statement calls 2 built-in methods behind the scene - \_\_enter\_\_() and \_\_exit\_\_() .

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In [ ]: """
Que 6-
Explain the write() and writelines() functions. Give a suitable example.

Ans 6-
The only difference between the write() and writelines() is that write() is
used to write a string to an already opened file while writelines()
method is used to write a list of strings in an opened file

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