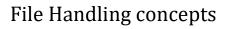


File Handling Mode (Read, Write, Create, Append)

Modes	Uses	Definition
"r"	Read	Opens a file for reading, error if the
		file does not exist
"a"	Append	Opens a file for appending, creates
		the file if it does not exist
"w"	Write	Opens a file for writing, creates the
		file if it does not exist
"x"	Create	Creates the specified file, returns an
		error if the file exists
"rb"	Read binary	Opens a file for reading only in binary
		format. The file pointer is placed at
		the beginning of the file. This is the
		default mode.
"r+"	Reading and Writing	Opens a file for both reading and
		writing. The file pointer placed at the
		beginning of the file.
"rb+"	Reading and Writing binary	Opens a file for both reading and
		writing in binary format. The file
		pointer placed at the beginning of the
		file.
"wb"	Writing only in binary format	Opens a file for writing only in binary
		format. Overwrites the file if the file
		exists. If the file does not exist,
		creates a new file for writing.
"W+"	Both writing and reading	Opens a file for both writing and
		reading. Overwrites the existing file if
		the file exists. If the file does not exist,
		creates a new file for reading and
" ! . "	B 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	writing.
"wb+"	Both writing and reading in binary	Opens a file for both writing and
		reading in binary format. Overwrites
		the existing file if the file exists. If the
		file does not exist, creates a new file
"-l-"	A 1 1.	for reading and writing.
"ab"	Appending in binary	Opens a file for appending in binary
		format. The file pointer is at the end
		of the file if the file exists. That is, the

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	T	T
		file is in the append mode. If the file
		does not exist, it creates a new file for
		writing.
"a+"	Both appending and reading	Opens a file for both appending and
		reading. The file pointer is at the end
		of the file if the file exists. The file
		opens in the append mode. If the file
		does not exist, it creates a new file for
		reading and writing.
"ab+"	Both appending and reading in binary	Opens a file for both appending and
		reading in binary format. The file
		pointer is at the end of the file if the
		file exists. The file opens in the
		append mode. If the file does not
		exist, it creates a new file for reading
		and writing.

File Handling Functions (Open, Read, Write, Remove)

Functions	Syntax	Definition
open()	f = open("demofile.txt")	The open() function takes two
		parameters; filename,
		and <i>mode</i> .
read()	<pre>f = open("demofile.txt", "r")</pre>	The open() function returns a file
	<pre>print(f.read())</pre>	object, which has
		a read()method for reading the
		content of the file
write()	<pre>f = open("demofile2.txt", "a")</pre>	To write to an existing file, you
	f.write("Now the file has more	must add a parameter to
	content!")	the open() function
remove()	import os	To delete a file, you must import
	os.remove("demofile.txt")	the OS module, and run
		its os.remove() function



```
file1.txt =

Hello! Welcome to Bennett university.
This file is for testing purposes.
Good Luck!

f = open("C:/Users/home/Desktop/Formatted/file1.txt", "r")
print(f.read())
```

2. Predict the output:

```
f = open("C:/Users/home/Desktop/Formatted/file1.txt", "r")
print(f.read(7))
print(f.read(10))
```

3. Predict the output:

```
f = open("C:/Users/home/Desktop/Formatted/file1.txt", "r")
print(f.readline())
```

4. Predict the output:

```
f = open("C:/Users/home/Desktop/Formatted/file1.txt", "r")
for x in f:
   print(x)
```



```
f = open("C:/Users/home/Desktop/Formatted/file1.txt", "w")
f.write("This is the write command\n")
f.write("It allows us to write in a particular file")
f.close()
f = open("C:/Users/home/Desktop/Formatted/file1.txt", "r")
print(f.read())
```

6. Write a Python program using function to read an entire text file.

7. Predict the output:

file1:

It is the second-most populous country.

Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.

Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java.

Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles.



file1:

It is the second-most populous country.

Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.

Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java.

Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles.

9. Predict the output:

file1:

It is the second-most populous country.

Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.



file2:

It is the second-most populous country. Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.

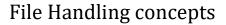
```
def count(filepath):
    with open(filepath) as f:
        data = f.read()
        data.replace(",", " ")
        return len(data.split(" "))
print(count("C:/Users/jagendra.singh/Desktop/yyy/file2.txt"))
```

11. Predict the output:

file2:

It is the second-most populous country. Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.

```
import random
def random_line(fname):
    lines = open(fname).read().splitlines()
    return random.choice(lines)
print(random_line('C:/Users/jagendra.singh/Desktop/yyy/file2.txt'))
```





12. Write a Python program to write a list to a file.

```
Input: color = ['Red', 'Green', 'White', 'Black', 'Pink', 'Yellow']

Output:
Red
Green
White
Black
Pink
Yellow
```

13. Write a Python program to remove newline characters from a file and put them in list.

Input: file:

It is the second-most populous country. Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.

Output: ['It is the second-most populous country.', 'Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.']