K.S.RANGASAMY COLLEGE OF TECHNOLOGY

(Autonomous)

Tiruchengode – 637 215, Namakkal (Dt.), Tamil Nadu.

Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning)

Course Name: Python

Files

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File

- ✓ Limited Data and Volatile
- ✓ Data needs to be stored permanently
- ✓ Named location to store related information
- ✓ Files created in two modes : text / binary
- ✓ Each lines end with special character
- ✓ Order of File Operation

    Open

    Read / Write

    Close

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Opening a File

✓ Syntax :

```
file_object = open (file_name, access_mode)
```

✓

Mode	Description
r	read-only mode (default , file pointer – beginning)
w	write-only mode (create new file , overwrite if already exists, file pointer – beginning)
a	append mode (create new file if no file exists, file pointer – end)
b	binary mode
x	exclusive file creation (if file exists displays error)
+	updating mode (read and write)
Example : r, rb , r+, rb+ , w, wb , w+, wb+ , a, ab , a+, ab+ Note : r + doesn't overwrite previous file whereas w + overwrites if file exists	

Writing / Closing File

- ✓ Closing File

  Syntax :

  ```
  file_object.close()
  ```

- ✓ Use of with..open

  Syntax :

  ```
  with open (file_name,access_mode) as file_object:
  ```

- ✓ Writing to File

  write mode

  overwrites the content if file already exists

  append mode

  appends the content at the end of file if already exists

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Reading File

- ✓ Reading File

  Syntax :

  ```
  file_object.read(count)
  ```

- ✓ Reading file using for loop
- ✓ Reading lines using readline()
- ✓ Reading lines using readlines()

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File Methods

Method	Description
writelines()	writes a list of lines to the file
tell()	return the current position of file object
seek(offset, [from])	changes the current position of file object from = 0 | 1 | 2
flush()	flushes the write buffer of the file stream
OS module	
os.rename(current_file_name, new_file_name)	
os.remove(file_name)	
os.mkdir("newdirectory")	
os.getcwd()	
os.chdir("newdir")	
os.rmdir('dirname')	