



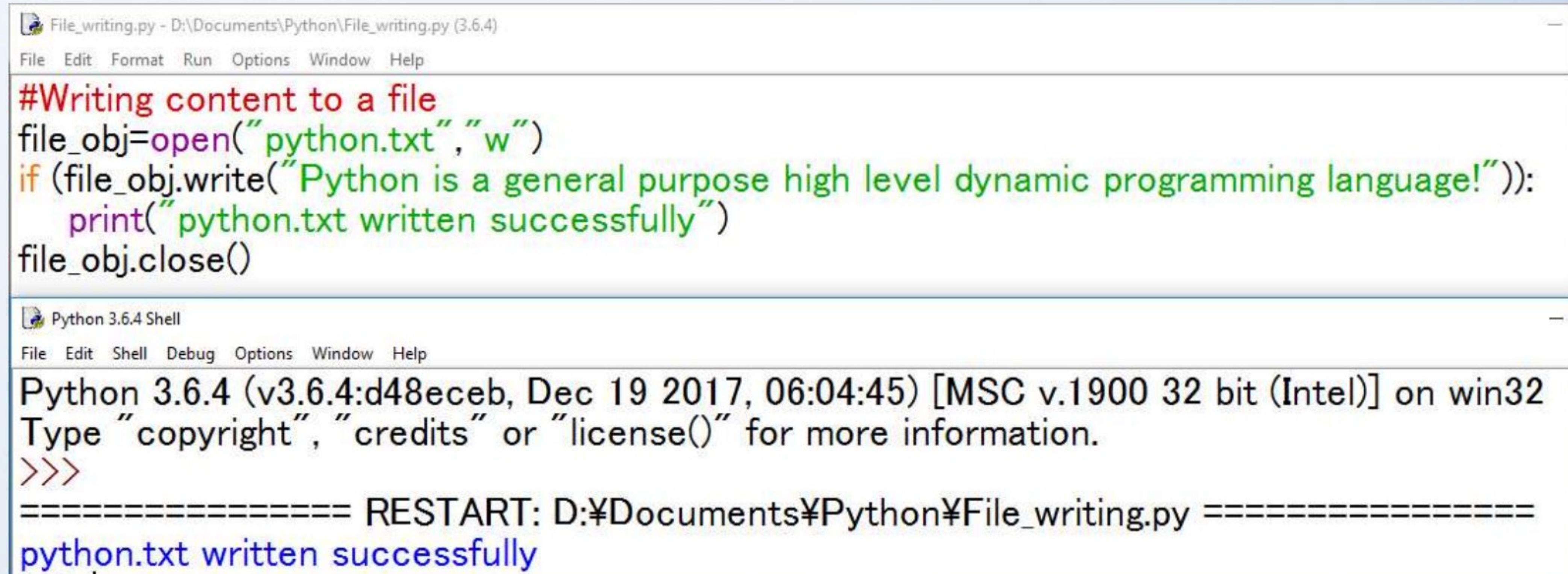
File Handling

- File opening & creating
- File writing
- File reading
- File deleting

Program to create or open a file

<pre>File_openining.py - D:/Documents/Python/File_openining.py (3.6.4) File Edit Format Run Options Window Help #File handling #File opening and creation #Syntax: file_object=open(file_name, file_mode) #Mode: r, r+, rb, w, w+, wb, a, a+, ab file_object=open("function.py", "w") print("File name: ", file_object.name) print("File opening mode: ", file_object.mode) #Closing a opened file file_object.close()</pre>	<pre>Python 3.6.4 Shell File Edit Shell Debug Options Window Help Python 3.6.4 (v3.6.4:d48ec Type "copyright", "credits >>> ===== RESTART File name: function.py File opening mode: w >>> </pre>
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Program to write a file



The screenshot displays two windows from a Python IDE. The top window, titled 'File_writing.py - D:\Documents\Python\File_writing.py (3.6.4)', contains the following Python code:

```
#Writing content to a file
file_obj=open("python.txt","w")
if (file_obj.write("Python is a general purpose high level dynamic programming language!")):
    print("python.txt written successfully")
file_obj.close()
```

The bottom window, titled 'Python 3.6.4 Shell', shows the execution output:

```
Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04:45) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Documents\Python\File_writing.py =====
python.txt written successfully
```


Program to write multiple lines in a file

<pre>File_writing_multiple_lines.py - D:/Documents/Python/File_writing_multiple_lines.py (3.6.4) File Edit Format Run Options Window Help # Program to write multiple lines fileobj=open("py.txt","r+") print(fileobj.readlines()) data=["City1: Roorkee \n","City2: Saharanpur \n","City3: Dehradun"] fileobj.seek(0,2) fileobj.writelines(data) fileobj.seek(0,0) readdata=fileobj.readlines() for ln in readdata: print(ln) fileobj.close()</pre>	<pre>Python 3.6.4 Shell File Edit Shell Debug Options Window Help Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04 Type "copyright", "credits" or "license()" for more i >>> ===== RESTART: D:/Documents/Python/File_ ['Python is a \n', 'general purpose & high level \n', ee \n', 'City2: Saharanpur \n', 'City3: DehradunCity DehradunCity1: Roorkee \n', 'City2: Saharanpur \r aharanpur \n', 'City3: Dehradun'] Python is a general purpose & high level dynamic programming language!City1: Roorkee City2: Saharanpur City3: DehradunCity1: Roorkee</pre>
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Program to read a file

```
File_reading.py - D:/Documents/Python/File_reading.py (3.6.4)
File Edit Format Run Options Window Help
#Writing content to a file
file_obj=open("python.txt","r")
#print(file_obj.read(4)) #4 characters
#readline() to read a complete line
#readlines() to read list of lines
print(file_obj.readlines()) #list of lines
file_obj.close()
```

```
Python 3.6.4 Shell
File Edit Shell Debug Options Window Help
Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06
:04:45) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for
more information.
>>>
===== RESTART: D:/Documents
/Python/File_reading.py =====
['Python is a ¥n', 'general purpose & high level
¥n', 'dynamic programming language!']
```


File seeking program to point a cursor on a specific character

<pre>File_seeking.py - D:\Documents\Python\File_seeking.py (3.6.4) File Edit Format Run Options Window Help # File seeking program to point a cursor on a file_object = open("py.txt", "r") print ("Name of the file: ", file_object.name) line = file_object.readlines() print ("Read Line: %s" % (line)) # Again set the pointer to the beginning file_object.seek(0) line = file_object.readline() print ("Read Line: %s" % (line)) # Close opened file file_object.close()</pre>	<pre>Python 3.6.4 Shell File Edit Shell Debug Options Window Help Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04 Type "copyright", "credits" or "license()" for more i >>> ===== RESTART: D:\Documents\Py Name of the file: py.txt Read Line: ['Python is a \n', 'general purpose & hi Read Line: Python is a >>> </pre>
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Program to remove '\n' character

<pre>File_remove_n.py - D:/Documents/Python/File_remove_n.py (3.6.4) File Edit Format Run Options Window Help # Program to remove \n character def remove_newlines(fname): fileobj = open(fname, "r+") flist=fileobj.readlines() return [s.rstrip("\n") for s in flist] print(remove_newlines("py.txt"))</pre>	<pre>Python 3.6.4 Shell File Edit Shell Debug Options Window Help Python 3.6.4 (v3.6.4:d48eceb, Dec 19 2017, 06:04:45) [AMD64] Type "copyright", "credits" or "license()" for more information >>> ===== RESTART: D:/Documents/Python/File_remove_n.py ['Python is a ', 'general purpose & high level ', 'dynamic p 'City2: Saharanpur ', 'City3: DehradunCity1: Roorkee ', 'C 1: Roorkee ', 'City2: Saharanpur ', 'City3: DehradunCity1: DehradunCity1: Roorkee ', 'City2: Saharanpur ', 'City3: De >>></pre>
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Program to copy content of a file in another file

File_copy.py - D:\Documents\Python\File_copy.py (3.6.4)

File Edit Format Run Options Window Help

```
# Program to copy the contents of a file to another file
from shutil import copyfile
copyfile('py.txt', 'python.txt')
```


Task: Write a program to create your profile in a text file

- Your name, address, contact no, dob, father's name, mother's name, course, branch, year, semester
- All information should be input at runtime by user
- All information should be in well format
- All information should be display immediately after writing
- File name should be entered by user at runtime
- File extension is your own choice