

Assignment 4

SET A

#A_1_Read_File.py

1) Write a Python program to read an entire text file.

```
def file_read(A_1_Test):  
    txt = open(A_1_Test)  
    print(txt.read())
```

```
file_read("A_1_Test.txt")
```

#A_1_Test.txt

What is Python language?

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.

A_2_No_of_char_word_lines_in_file.py

2. Write a Python program to compute the no of char, words and lines in a file.

```
file = open("A_2_Test.txt", "r")
```

```
no_of_lines = 0
```

```
no_of_words = 0
```

```
no_of_char = 0
```

```
for line in file:
```

```
    line = line.strip("\n")
```

```
    words = line.split()
```

```
    no_of_lines += 1
```

```
    no_of_words += len(words)
```

```
    no_of_char += len(line)
```

```
file.close()
```

```
print("lines:", no_of_lines, "words:", no_of_words, "char:", no_of_char)
```

#A_2_Test.txt

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Guido van Rossum
first released on February 20, 1991

A_3_current_date.py

3) Write a python script to print the current date in the following format Sun May 29 02:26:23 IST 2017

```
import time
ltime = time.localtime()
print(time.strftime("%a %b %d %H:%M:%S %Z %Y", ltime))
```

SET B

B_1_Append_Item.py

1. Write a Python program to append text to a file and display the text.

```
testfile = open("B_1_test.txt", "a")

testfile.write("Line Four\n")
testfile.close()

appended_file = open("B_1_test.txt", "r")
print(appended_file.read())
```

#B_1_Test.txt

Line One
Line Two
Line Three

B_2_Reverse_line_in_file.py

2. Write a Python program to print each line of a file in reverse order.

```
f1 = open("B_2_output.txt", "w")

with open("B_2_Test.txt", "r") as myfile:
    data = myfile.read()
    data_1 = data[::-1]
    f1.write(data_1)
f1.close()
```

#B_2_Test.txt

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B_3_Current_DateTime.py

3. Write a Python program to print date, time for today and now.

```
import datetime
```

```
now = datetime.datetime.now()
```

```
print("Current date and time : ")
```

```
print(now.strftime("%d-%m-%Y %H:%M:%S"))
```