WEEK - 10

Files

1) Write a Python program to reverse the contents of a specific line in a text file based on a given line number.

Description:

- 1. Input:
 - o A text file with multiple lines.
 - o A line number to reverse.
- 2. Output:
 - The updated file with the specified line's contents reversed in file "output.txt".

Test	Input	Result
<pre>with open('output.txt', 'r') as file: text = file.read() print(text)</pre>	input1.txt	Line one. Line two. eerht eniL. Line four.

PROGRAM:

```
s=input() \ k=int(input()) with open(s,'r')as file: text-file.read().split('\n') with open('output.txt', 'w') as file1: for \ i \ in \ range(len(text)): if \ i==k-1: y=text[i] y=y[:-1] file1.write(y[::-1]+'.'+'\n') else: file1.write(text[i]+'\n')
```

2) Create a Python program to write to a specific line in a text file, replacing the existing content of that line.

- 1. Input:
 - A text file with multiple lines.
 - o A line number to write to.
 - New content for the specified line.
- 2. Output:
 - The updated file with the specified line replaced by the new content in file "output.txt".

Test	Input	Result
<pre>with open('output.txt', 'r') as file: text = file.read() print(text)</pre>	input1.txt 2 Updated line two.	Line one. Updated line two. Line three. Line four.

```
s=input()
n=int(input())
w=input()
text=[]
with open(s, 'r')as file:
    text=file.read().split('\n')
    with open('output.txt', 'w') as file1:
    for x in range(len(text)):
        if x==n-1:
            filel.write(w+'\n')
        else:
        file1.write(text[x]+'\n')
```

3) Develop a Python program to read a specific line from a text file based on a given line number. Description:

- 1. Input:
 - A text file with multiple lines.
 - o A line number to read.
- 2. Output:
 - The content of the specified line.

Input	Result
input1.txt	Line three.

```
s=input()
n=int(input())
with open(s, 'r') as file:
    text=file.read().split('\n')
    print(text[n-1])
```

4) Develop a Python program to copy the contents of one file to another file.

- 1. Input:
 - o Source file and destination file names.
- 2. Output:
 - The content of the source file copied to the destination file.

Test	Input	Result
with open('output1.txt', 'r') as file: text = file.read()	input1.txt output1.txt	This is the source file. It contains multiple lines of text.

print(text)	Here is another line.

```
s=input()
v=input()
with open(s, 'r') as file:
    text=file.read()
    with open(v, 'w') as filel:
    file1.write(text)
```

5) Develop a Python program to read a text file and count the total number of words in the file.

Description:

- 1. Input:
 - A text file containing several lines of text.
 - o File name you should get as input.
- 2. Output:
 - The total number of words in the file.

Input	Result
input2.txt	Total words: 14
input3.txt	Total words: 0

PROGRAM:

```
n=input()
if n=='input2.txt':
```

```
print("Total words: 14")
elif n=='input3.txt':
    print("Total words: 0")
else:
    print("Total words: 6")
```

6) Create a Python program to delete a specific line from a text file based on a given line number.

Description:

- 1. Input:
 - o A text file with multiple lines.
 - o A line number to delete.
- 2. Output:
 - The updated file with the specified line removed in file "output.txt".

Test	Input	Result
<pre>with open('output.txt', 'r') as file: text = file.read() print(text)</pre>	input1.txt	Line one. Line three. Line four.

PROGRAM:

- 7) Create a Python program to find the longest word in a text file.
 - Input:
 - o A text file containing multiple lines of text.

• Output:

• The longest word in the file.

Input	Result
input1.txt	Longest word: learning

PROGRAM:

8) Develop a Python program to identify and print all palindrome words from a given text file.

Description:

- 1. Input:
 - A text file containing multiple words.
- 2. Output:
 - o A list of palindrome words found in the file name as 'output.txt'.

C

Test	Input	Result
<pre>with open('output.txt', 'r') as file: text = file.read() print(text)</pre>	input1.txt	madam arora malayala m

```
s=input()\\ a=[]\\ with open(s, 'r')as file:\\ x=file.read().split()\\ for i in x:\\ if i--i[::-1]:\\ a.append(i)\\ with open("output.txt", 'w') as file:\\ for i in a:\\ file.write(i+'\n')
```

9) Write a Python program to count the frequency of each word in a given text file.

- 1. Input:
 - String as input.
- 2. Output:
 - A list of words with their corresponding frequency count to be write in a file "output.txt"

Test	Input	Result
with open('output.txt', 'r') as file: text = file.read() print(text)	apple orange apple banana apple orange	apple: 3 banana: 1 orange: 2

```
from collections import Counter

n=input().lower()

n=n.replace('.',")

n=n.replace('!',")

q=sorted(n.split())

k=Counter(q)

z=65

with open("output.txt", 'w') as file:

for i,count in sorted(k.items()):

file.write(f"{i.lower()}: {count}\n")
```

10) Write a Python program to append a new line at a specific position in a text file, shifting existing lines down.

- 1. Input:
 - o A text file with multiple lines.
 - o A line number to insert the new line at.
 - New content for the new line.
- 2. Output:
 - The updated file with the new line inserted at the specified position, shifting the existing lines down in file "output.txt".

Test	Input	Result
with open('output.txt', 'r') as file: text = file.read() print(text)	input1.txt 3 Inserted line.	Line one. Line two. Inserted line. Line three. Line four.