

Aryaman Mishra

19BCE1027

Experiment 2

Aim: Implement caesar cipher encryption technique for a **text file** or audio file.

Code:

```
textenc - Notepad
File Edit Format View Help

def encrypt(text,s):
    result = ""
    for i in range(len(text)):
        char = text[i]
        if (char.isupper()):
            result += chr((ord(char) + s-65) % 26 + 65)
        else:
            result += chr((ord(char) + s - 97) % 26 + 97)
    return result

text_file = open("C:/Users/aryam/Desktop/Winter Sem 2021-22/CSE3502 - Information Security Management Lab/Lab 2 20-1-21/EncryptText.txt", "r")
text = text_file.read()
text_file.close()
print("Enter value of shifting.")
s = int(input())
print("Text : " + text)
print("Shift : " + str(s))
print("Cipher: " + encrypt(text,s))
```

```
def encrypt(text,s):

    result = ""

    for i in range(len(text)):

        char = text[i]

        if (char.isupper()):

            result += chr((ord(char) + s-65) % 26 + 65)

        else:

            result += chr((ord(char) + s - 97) % 26 + 97)

    return result
```

```
text_file = open("C:/Users/aryam/Desktop/Winter Sem 2021-22/CSE3502 - Information Security
Management Lab/Lab 2 20-1-21/EncryptText.txt", "r")
```

```
text = text_file.read()
```

```
text_file.close()
```

```
print("Enter value of shifting.")
```

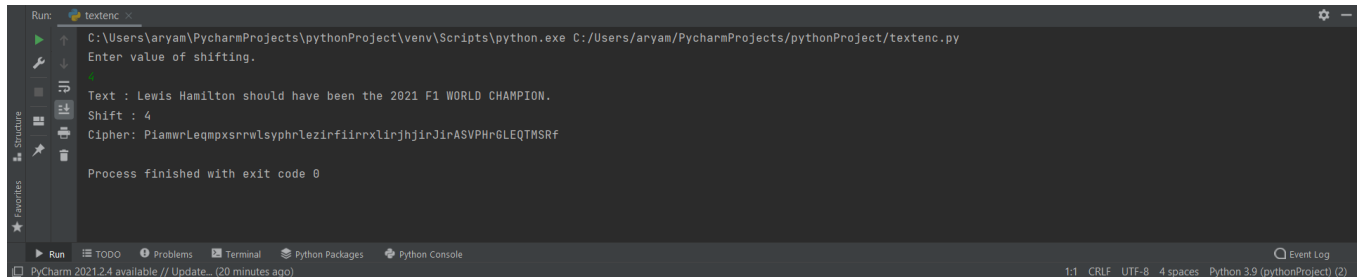
```
s = int(input())
```

```
print("Text : " + text)

print("Shift : " + str(s))

print("Cipher: " + encrypt(text,s))
```

Output:

A screenshot of the PyCharm IDE's Run console. The console window shows the execution of a Python script named 'textenc.py'. The output is as follows:
Enter value of shifting.
Text : Lewis Hamilton should have been the 2021 F1 WORLD CHAMPION.
Shift : 4
Cipher: PiamwrLeqmpxsrrwlsyphrlezirfiierrxlirjhjirJirASVPHrGLEQTMSRf
Process finished with exit code 0
The interface includes a left sidebar with icons for Run, Structure, and Favorites. At the bottom, there is a status bar with information about the Python environment (Python 3.9) and file encoding (UTF-8).

Conclusion:

Cipher for Text file has been successfully implemented for a text file and output for text file containing “Lewis Hamilton should have been the 2021 WORLD CHAMPION” is denoted in output screenshot.