

### **Network Security and Forensics**

### Lab Session 6

Submitted To:-

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Submitted By:-

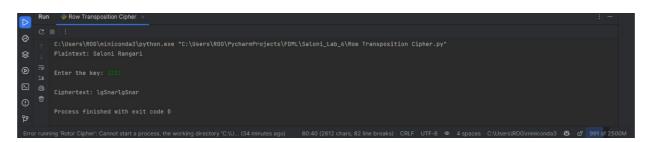
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# Assignment 1: Write a program to demonstrate Row Transposition Cipher. Take Plaintext input form File and Also Ciphertext store in File.

```
import math
def encrypt_row_transposition(plain_text, key):
def write file(file path, content):
```

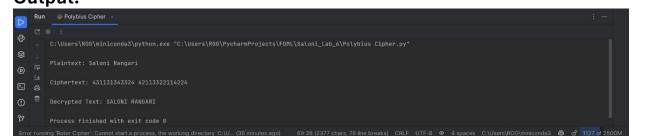
#### **Output:**



# Assignment 2: Write a program to demonstrate Polybius Cipher Take Plaintext input form File and Also Ciphertext store in File.

```
def create polybius square():
   def polybius_encrypt(plain_text):
def polybius_decrypt(cipher_text):
def write file(file path, content):
```

#### **Output:**



Assignment 3: Write a program to demonstrate the Rotor Cipher (as discussed in the classroom).

Take the following inputs:

- Plaintext
- No. of Rotor
- Angle of Each Rotor

```
def get shift from angle(angle):
def apply rotor cipher(plain text, rotors, angles):
   alphabet = string.ascii uppercase
   plain_text = plain_text.upper() # Convert to uppercase for
def read_file(file_path):
   with open(file_path,'w') as file:
        angles.append(angle)
   ciphertext = apply_rotor_cipher(plaintext, rotors, angles)
```

#### **Output:**

