

Network Security and Forensics

Lab Session 5

Submitted To:-

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1) Write a program to demonstrate the Vegenere Cipher Input from file and Output into the file

```
def vigenere encrypt(plaintext, keyword):
   for p, k in zip(plaintext, keyword_repeated):
           base = ord('A') if p.isupper() else ord('a')
           encrypted_text.append(encrypted_char)
           encrypted_text.append(p) # Non-alphabet characters are
def vigenere_decrypt(ciphertext, keyword):
           decrypted text.append(decrypted char)
           decrypted text.append(c) # Non-alphabet characters are
   if operation == 1:
   elif operation == 2:
           decrypted file.write(decrypted)
       encrypted = vigenere encrypt(decrypted, key)
       print(f"Decrypted: {decrypted}")
```

Output: Encryption

```
Run Vigenere_Cipher ×

C: | : |

C:\Users\ROG\miniconda3\python.exe "C:\Users\ROG\PycharmProjects\NSF\Lab_5\Vigenere _Cipher\Vigenere_Cipher.py"

Type 1 to encrypt or 2 to decrypt: |

Plain Text: Hello NFSU GOA

Key: N

Encrypted: Uryyb ASFH TBN

Decrypted: Uryyb ASFH TBN

Decrypted: Hello NFSU GOA

Process finished with exit code 0
```

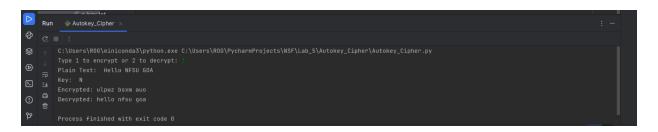
Output: Decryption



2) Write a Program to demonstrate the AutoKey Cipher. Input from file and Output into the file

```
def encrypt(plaintext: str, key: str) -> str:
   ciphertext = ""
def decrypt(ciphertext: str, key: str) -> str:
ord(key[key iterator])) % 26 + 97)
```

Output: Encryption



Output: Decryption

```
Run Autokey_Cipher ×

Compliant

Type 1 to encrypt or 2 to decrypt: 2
Cipher Fext: ulpwz bsxm auo

Key: N

Decrypted: hello nfsu goa
Encrypted: ulpwz bsxm auo

Process finished with exit code 0
```