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CLASS : TE A ROLL NO : 26 SUBJECT : NETWORK SECURITY

EXPERIMENT : 2 WRITE A PROGRAM FOR ENCRYPTION AND DECRYPTION

PYTHON PROGRAM

def encrypt(plaintext, shift):

ciphertext = ""

for char in plaintext:

if char.isalpha():

# Shift character by specified amount

shifted\_char = chr((ord(char) - 65 + shift) % 26 + 65)

else:

shifted\_char = char

ciphertext += shifted\_char

return ciphertext

def decrypt(ciphertext, shift):

plaintext = ""

for char in ciphertext:

if char.isalpha():

# Shift character by specified amount

shifted\_char = chr((ord(char) - 65 - shift) % 26 + 65)

else:

shifted\_char = char

plaintext += shifted\_char

return plaintext

# Example usage

plaintext = ""

shift = 3

ciphertext = encrypt(plaintext, shift)

print("Encrypted text:", ciphertext)

decrypted\_text = decrypt(ciphertext, shift)

print("Decrypted text:", decrypted\_text)

OUTPUT :



