1) To implement the simple substitution technique named Caesar cipher using python language.

**PROGRAM:-**

def main():

plain = input("\n Enter the plain text: ")

key = int(input("\n Enter the key value: "))

print("\n\n\t PLAIN TEXT:", plain)

print("\n\n\t ENCRYPTED TEXT: ", end="")

cipher = []

for char in plain:

encrypted\_char = chr(ord(char) + key)

if char.isupper() and ord(encrypted\_char) > ord('Z'):

encrypted\_char = chr(ord(encrypted\_char) - 26)

elif char.islower() and ord(encrypted\_char) > ord('z'):

encrypted\_char = chr(ord(encrypted\_char) - 26)

cipher.append(encrypted\_char)

print(encrypted\_char, end="")

print("\n\n\t AFTER DECRYPTION : ", end="")

for encrypted\_char in cipher:

decrypted\_char = chr(ord(encrypted\_char) - key)

if encrypted\_char.isupper() and ord(decrypted\_char) < ord('A'):

decrypted\_char = chr(ord(decrypted\_char) + 26)

elif encrypted\_char.islower() and ord(decrypted\_char) < ord('a'):

decrypted\_char = chr(ord(decrypted\_char) + 26)

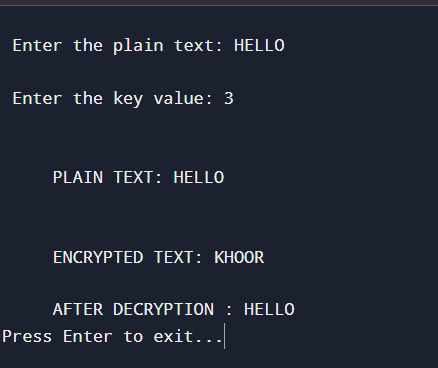
print(decrypted\_char, end="")

input("\nPress Enter to exit...")

if \_\_name\_\_ == "\_\_main\_\_":

main()

**OUTPUT:-**

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