

HUNAR INTERN

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LET'S GET STARTED



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Task- 2(Medium)

Task: Create a Encryption/Decryption Tool

Description:

This project is to develop a straightforward tool that performs encryption and decryption of messages or files. Using Python, I am creating a program that allows users to encode and decode information securely.

Encryption(**Encode**): Process of hiding file or normal plain text in cipher text.

Encryption is to maintain "Confidentiality"

Decryption(Decode): Process of converting cipher text into normal plain text.

Steps to Follow:

1. Write Code:

```
def decrypt(text, shift):
    decrypted_text = ""
    for char in text:
    if char.isalpha(): # Check if the character is a letter
        if char.islower():
            decrypted_text += chr((ord(char) - ord('a') - shift) % 26 + ord('a'))
        elif char.isupper():
            decrypted_text += chr((ord(char) - ord('A') - shift) % 26 + ord('A'))
        else:
            decrypted_text += char
    return decrypted_text
```

```
# Prompt the user to enter encrypted text and shift value
encrypted_text = input("Enter the encrypted text: ")
shift = int(input("Enter the shift value: "))

# Decrypt the encrypted text
decrypted_text = decrypt(encrypted_text, shift)

# Print the decrypted text
print("Decrypted text:", decrypted_text)
```

2. Display Results:

```
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       def decrypt(text, shift):
                                                                                                                                       ↑ ↓ ⇔ 🗏 🗘 🗓 🗓
                for char in text:
{x}
                       if char.islower():
                            decrypted_text += chr((ord(char) - ord('a') - shift) % 26 + ord('a'))
⊙<del>,</del>
                           decrypted_text += chr((ord(char) - ord('A') - shift) % 26 + ord('A'))
decrypted_text += char
                return decrypted_text
            print("Decrypted text:", decrypted_text)
       Enter the encrypted text: nmdmvh
Enter the shift value: -5
```

What I have Learnt:

- •Gain practical experience in programming with Python.
- •Understand the basics of encryption and decryption algorithms.
- •Learn how to implement secure information handling.

Conclusion:

This project is an opportunity to delve into the fundamentals of encryption and decryption while strengthening your Python coding skills. By the end of this task, I have created a functional tool that can securely encode and decode information.