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Python Online Compiler

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main.py

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```
1- def caesar_cipher_encrypt(text, shift):
2-     encrypted_text = ""
3-     for char in text:
4-         if char.isalpha():
5-             shifted = ord(char) + shift
6-             if char.islower():
7-                 if shifted > ord('z'):
8-                     shifted -= 26
9-                 elif shifted < ord('a'):
10-                    shifted += 26
11-             elif char.isupper():
12-                 if shifted > ord('Z'):
13-                     shifted -= 26
14-                 elif shifted < ord('A'):
15-                     shifted += 26
16-             encrypted_text += chr(shifted)
17-         else:
18-             encrypted_text += char
19-     return encrypted_text
20-
21- def caesar_cipher_decrypt(encrypted_text, shift):
22-     return caesar_cipher_encrypt(encrypted_text, -shift)
23-
24- def main():
25-     while True:
26-         choice = input("Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: ")
```

```
Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: D
Enter the message to decrypt: decrypt
Enter the shift value: 3
Decrypted message: abzovmq
Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: E
Enter the message to encrypt: encrypt
Enter the shift value: 3
Encrypted message: hqfubsw
Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: Q
Exiting program.

=== Code Execution Successful ===
```

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main.py

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```
21- def caesar_cipher_decrypt(encrypted_text, shift):
22-     return caesar_cipher_encrypt(encrypted_text, -shift)
23-
24- def main():
25-     while True:
26-         choice = input("Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: ")
27-         .upper()
28-         if choice == 'Q':
29-             print("Exiting program.")
30-             break
31-         elif choice == 'E':
32-             message = input("Enter the message to encrypt: ")
33-             shift = int(input("Enter the shift value: "))
34-             encrypted_message = caesar_cipher_encrypt(message, shift)
35-             print("Encrypted message:", encrypted_message)
36-         elif choice == 'D':
37-             message = input("Enter the message to decrypt: ")
38-             shift = int(input("Enter the shift value: "))
39-             decrypted_message = caesar_cipher_decrypt(message, shift)
40-             print("Decrypted message:", decrypted_message)
41-         else:
42-             print("Invalid choice. Please enter 'E', 'D', or 'Q'.")
43-
44- if __name__ == "__main__":
45-     main()
```

```
Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: D
Enter the message to decrypt: decrypt
Enter the shift value: 3
Decrypted message: abzovmq
Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: E
Enter the message to encrypt: encrypt
Enter the shift value: 3
Encrypted message: hqfubsw
Enter 'E' to encrypt, 'D' to decrypt, or 'Q' to quit: Q
Exiting program.

=== Code Execution Successful ===
```

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