TEST 1: Basic Encryption and Decryption

INPUT 1:

Enter a string to encrypt:

HelloWorld

Enter shift value:

3

OUTPUT 1:

pgsql

Encrypted: KhoorZruog

Decrypted: HelloWorld

Explanation:

Each letter is shifted forward by 3 positions.

Decryption correctly restores the original text.

TEST 2: Handling Spaces and Punctuation

INPUT 2:

Enter a string to encrypt:

Hello, World!

Enter shift value:

5

OUTPUT 2:

pgsql

Encrypted: Mjqqt, Btwqi!

Decrypted: Hello, World!

Explanation:

Spaces and punctuation remain unchanged.

Letters are shifted correctly.

TEST 3: Large Shift Values and Wrapping

INPUT 3:

Enter a string to encrypt:

xyzXYZ

Enter shift value:

4

OUTPUT 3:

pgsql

Encrypted: bcdBCD

Decrypted: xyzXYZ

Explanation:

Letters wrap around when they exceed 'z' or 'Z'.

Shift of 4 correctly moves 'x' → 'b', 'y' → 'c', 'z' → 'd'.