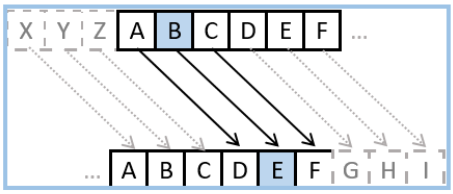
SEZAR SHIFRLASH USULI



SHIFT +3

This Caesar cipher has a shift of 3 characters.

The letter ‘A’ becomes a ‘D’. The letter ‘B’ becomes ‘E’.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C

Plaintext

Ciphertext

T_0=Samarqand, k=3

T_1= Vdpdutdqg

Shifrlash dasturi

```
def caesar_cipher(text, kalit):
    encrypted_text = ""
    for char in text:
        if char.isalpha():
            ascii_val = ord(char)
            if char.isupper():
                encrypted_ascii_val = (ascii_val - 65 + kalit) % 26 + 65
            else:
                encrypted_ascii_val = (ascii_val - 97 + kalit) % 26 + 97
            encrypted_char = chr(encrypted_ascii_val)
            encrypted_text += encrypted_char
        else:
            encrypted_text += char
    return encrypted_text

text ="Samarqand"
kalit = 3
encrypted_text = caesar_cipher(text, kalit)
print("Encrypted text:", encrypted_text)
```

```
Encrypted text: Vdpdutdqg
```

Deshifrlash dasturi

```
def caesar_decrypt(ciphertext, kalit):
    plaintext = ""
    for char in ciphertext:
        if char.isalpha():
            if char.islower():
                position = ord(char) - ord('a')
            else:
                position = ord(char) - ord('A')
            decrypted_position = (position - kalit) % 26
            if char.islower():
                decrypted_char = chr(decrypted_position + ord('a'))
            else:
                decrypted_char = chr(decrypted_position + ord('A'))

            plaintext += decrypted_char
        else:
            plaintext += char
    return plaintext

ciphertext = "Vdpdutdqg"
kalit = 3
plaintext = caesar_decrypt(ciphertext, kalit)
print("Decrypted text:", plaintext)
```

```
Decrypted text: Samarqand_
```

Deshirlash dasturi (Kalitlarni bilmasdan turib)

```python
def caesar_decrypt(text):
    decrypted_texts = []
    for shift in range(26):
        decrypted_text = ""
        for char in text:
            if char.isalpha():
                ascii_val = ord(char)
                if char.isupper():
                    decrypted_ascii_val = (ascii_val - 65 - shift) % 26 + 65
                else:
                    decrypted_ascii_val = (ascii_val - 97 - shift) % 26 + 97
                decrypted_char = chr(decrypted_ascii_val)
                decrypted_text += decrypted_char
            else:
                decrypted_text += char
        decrypted_texts.append(decrypted_text)
    return decrypted_texts

# Example usage:
encrypted_text = "Vdpdutdqg"
decrypted_texts = caesar_decrypt(encrypted_text)
print("Encrypted text:", encrypted_text)
print("Possible Decryptions:")
for idx, decrypted_text in enumerate(decrypted_texts):
    print(f"Shift {idx}: {decrypted_text}")
```

```
Possible Decryptions:
Shift 0: Vdpdutdqg
Shift 1: Ucoctscpf
Shift 2: Tbnbsrboe
Shift 3: Samarqand
Shift 4: Rzlzqpzmc
Shift 5: Qykypoylb
Shift 6: Pxjxonxka
Shift 7: Owiwnmwjz
Shift 8: Nvhvmlviy
Shift 9: Mugulkuhx
Shift 10: Ltftkjtgw
Shift 11: Ksesjisfv
Shift 12: Jrdrihreu
Shift 13: Iqcqhgqdt
Shift 14: Hpbpgfpcs
Shift 15: Goaofeobr
Shift 16: Fnznednaq
Shift 17: Emymdcmzp
Shift 18: Dlxlcblyo
Shift 19: Ckwkbakxn
Shift 20: Bjvjazjwm
Shift 21: Aiuizyivl
Shift 22: Zhthyxhuk
Shift 23: Ygsgxwgtj
Shift 24: Xfrfwvfsi
Shift 25: Weqevuerh
```