

## Caesar Cipher:

### Encrypt:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Encrypt\caesar_cipher_encrypt.py"

Enter the message: are you in mumbai
Enter the shift amount: 3
Message : are you in mumbai
Shift : 3
Encrypted: duhqbrrxqlqqpxpedl
```

### Decrypt:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Decrypt\caesar_cipher_decrypt.py"

Enter the encrypted text: duhqbrrxqlqqpxpedl
1 ctgpaqpkppowodck
2 bsfozpvjoonvncbj
3 arenyouninnmbai
4 zqdmxntmhmmltlazh
5 ypclwmslgllkskzyg
6 xobkvlrkfkjjejyxf
7 wnaajukqejjjiqxae
8 vmzittjpidihphwd
9 ulyhsiochhgggvuc
10 tkogrhngbggfnfub
11 sjwfgwaffemetsa
12 rivepflezeedldsrz
13 qhudoekdyddckrcqy
14 pgtcndjcccbjbapx
15 ofsbmcibwbbaiapow
16 neralbhavaazhonzv
17 mdqzkagzuzzgyymu
18 lcpyzjzfytyxfmilt
19 kbxiyexsxoewllks
20 janshxdwawwvdkjje
21 izmvgwcvqvucujjiq
22 hylufvbupautbtihp
23 gxkteuatottsashgo
24 fujsdtzsnssrzrgfn
25 evincsynmrnqqfem
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1>
```

## Hill Cipher

### Encrypt & Decrypt:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Encrypt\hill_encrypt.py"
Hill Cipher Encryption
Enter a text with an even number of characters: Are you in Delhi
Encrypted text: ZHRZKONFLDO8TLTC
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Decrypt\hill_decrypt.py"
Hill Cipher Decryption
Enter the encrypted text: ZHRZKONFLDO8TLTC
Decrypted text: ARETYOUTINDELHI
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1>
```

## Monoalphabetic Cipher:

### Encrypt & Decrypt:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Encrypt\monoalphabetic_encrypt.py"
Enter the keyword: monarch
Enter the message: Are you in Delhi
Encoded text: MQR YKU DJ ARGBD
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Decrypt\monoalphabetic_decrypt.py"
Enter the keyword: monarch
Enter the encrypted message: MQR YKU DJ ARGBD
Decrypted message: ARE YOU IN DELHI
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1>
```

## Playfair Cipher:

### Encrypt & Decrypt:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CS
S\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Encrypt\playfair_encrypt.py"
Enter the keyword: monarch
Enter the message: Are you in England
Encrypted message: RMDZRQSBRRIFRABY
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CS
S\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Decrypt\playfair_decrypt.py"
Enter the keyword: monarch
Enter the encrypted text: RMDZRQSBRRIFRABY
Decrypted text: AREYOUINENGLANDX
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1>
```

## Polyalphabetic Cipher:

```
● S\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Encrypt\polyalphabetic_encrypt.p
y"
Enter the keyword: monarch
Enter the text: Are you in Dubai
Encoded text: MFRYFWPZRHBRK
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CS
● S\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-2021300089\Decrypt\polyalphabetic_decrypt.p
y"
Enter the keyword: monarch
Enter the encrypted text: MFRYFWPZRHBRK
Decrypted message: AREYOUINDUBAI
○ PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1>
```