Caesar Cipher:

```
PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1> python -u "c:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1\substitution-techniques-
attack-2021300089\caesarcipherattack.py"
kwcop ivl kwtl
jvbno huk jvsk
iuamn gtj iurj
htzlm fsi htqi
gsykl erh gsph
frxjk dqg frog
eqwij cpf eqnf
dpvhi boe dpme
cough and cold
bntfg zmc bnkc
amsef ylb amjb
zlrde xka zlia
ykqcd wjz ykhz
xjpbc viy xjgy
wioab uhx wifx
vhnza tgw vhew
ugmyz sfv ugdv
tflxy reu tfcu
sekwx qdt sebt
rdjvw pcs rdas
qciuv obr qczr
pbhtu naq pbyq
oagst mzp oaxp
nzfrs lyo nzwo
myeqr kxn myvn
lxdpq jwm lxum
PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1>
```

Hill:

```
Trying key: [[1, 8], [14, 11]] - Decrypted Text: UJIGGZEA
PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1> python -u "c:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1\substitution-techniques-
attack-2021300089\hillattack.py"
Brute-forcing...
Trying key: [[0, 1], [1, 0]] - Decrypted Text: FGIWPQQG
Trying key: [[0, 1], [1, 1]] - Decrypted Text: FLIEPFQW
Trying key: [[0, 1], [1, 2]] - Decrypted Text: FQIMPUQM
Trying key: [[0, 1], [1, 3]] - Decrypted Text: FVIUPJQC
Trying key: [[0, 1], [1, 4]] - Decrypted Text: FAICPYQS
Trying key: [[0, 1], [1, 5]] - Decrypted Text: FFIKPNQI
Trying key: [[0, 1], [1, 6]] - Decrypted Text: FKISPCQY
Trying key: [[0, 1], [1, 7]] - Decrypted Text: FPIAPRQO
Trying key: [[0, 1], [1, 8]] - Decrypted Text: FUIIPGQE
Trying key: [[0, 1], [1, 9]] - Decrypted Text: FZIQPVQU
Trying key: [[0, 1], [1, 10]] - Decrypted Text: FEIYPKQK
Trying key: [[0, 1], [1, 11]] - Decrypted Text: FJIGPZQA
Trying key: [[0, 1], [1, 12]] - Decrypted Text: FOIOPOQQ
Trying key: [[0, 1], [1, 13]] - Decrypted Text: FTIWPDQG
Trying key: [[0, 1], [1, 14]] - Decrypted Text: FYIEPSQW
Trying key: [[0, 1], [1, 15]] - Decrypted Text: FDIMPHQM
Trying key: [[0, 1], [1, 16]] - Decrypted Text: FIIUPWQC
Trying key: [[0, 1], [1, 17]] - Decrypted Text: FNICPLQS
Trying key: [[0, 1], [1, 18]] - Decrypted Text: FSIKPAQI
Trying key: [[0, 1], [1, 19]] - Decrypted Text: FXISPPQY
Trying key: [[0, 1], [1, 20]] - Decrypted Text: FCIAPEQO
Trying key: [[0, 1], [1, 21]] - Decrypted Text: FHIIPTQE
Trying key: [[0, 1], [1, 22]] - Decrypted Text: FMIQPIQU
Trying key: [[0, 1], [1, 23]] - Decrypted Text: FRIYPXQK
Trying key: [[0, 1], [1, 24]] - Decrypted Text: FWIGPMQA
Trying key: [[0, 1], [1, 25]] - Decrypted Text: FBIOPBQQ
Trying key: [[0, 1], [3, 0]] - Decrypted Text: FSIOPWQS
Trying key: [[0, 1], [3, 1]] - Decrypted Text: FXIWPLQI
Trying key: [[0, 1], [3, 2]] - Decrypted Text: FCIEPAQY
```

Monoalphabetic:

```
PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1> python -u "c:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1\substitution-techniques-
attack-2021300089\monoalphabeticattack.py"
Possible plaintext combinations:
1. ieten aets eho tarot
2. ntats otah tri aodia
3. saoah iaor adn oilno
4. hoior noid ols incsi
5. rinid sinl ich nsuhn
6. dnsnl hnsc nur shmrs
7. lshsc rshu smd hrwdh
8. chrhu dhrm hwl rdflr
9. urdrm lrdw rfc dlgcd
10. mdldw cdlf dgu lcyul
11. wlclf ulcg lym cupmc
12. fcucg mcuy cpw umbwu
13. gumuy wump ubf mwvfm
14. ymwmp fmwb mvg wfkgw
15. pwfwb gwfv wky fgjyf
16. bfgfv yfgk fjp gyxpg
17. vgygk pgyj gxb ypqby
18. kypyj bypx yqv pbzvp
19. jpbpx vpbq pzk bvekb
20. xbvbq kbvz bej vktjv
21. qvkvz jvke vtx kjaxk
22. zkjke xkjt kaq jxoqj
23. ejxjt qjxa joz xqizx
24. txqxa zxqo xie qzneq
25. aqzqo eqzi qnt zestz
26. ozezi tzen zsa ethae
27. ieten aets eho tarot
28. ntats otah tri aodia
29. saoah iaor adn oilno
30. hoior noid ols incsi
```

```
70. kypyj bypx yqv pbzvp
71. jpbpx vpbq pzk bvekb
72. xbvbq kbvz bej vktjv
73. qvkvz jvke vtx kjaxk
74. zkjke xkjt kaq jxoqj
75. ejxjt qjxa joz xqizx
76. txqxa zxqo xie qzneq
77. aqzqo eqzi qnt zestz
78. ozezi tzen zsa ethae
79. ieten aets eho tarot
80. ntats otah tri aodia
81. saoah iaor adn oilno
82. hoior noid ols incsi
83. rinid sinl ich nsuhn
84. dnsnl hnsc nur shmrs
85. lshsc rshu smd hrwdh
86. chrhu dhrm hwl rdflr
87. urdrm lrdw rfc dlgcd
88. mdldw cdlf dgu lcyul
89. wlclf ulcg lym cupmc
90. fcucg mcuy cpw umbwu
91. gumuy wump ubf mwvfm
92. ymwmp fmwb mvg wfkgw
93. pwfwb gwfv wky fgjyf
94. bfgfv yfgk fjp gyxpg
95. vgygk pgyj gxb ypqby
96. kypyj bypx yqv pbzvp
97. jpbpx vpbq pzk bvekb
98. xbvbq kbvz bej vktjv
99. qvkvz jvke vtx kjaxk
100. zkjke xkjt kaq jxoqj
PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1>
```

Playfair:

```
● PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1> python -u "c:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1\substitution-techniques-
  attack-2021300089\playfairattack.py"
  Key: secret -> Decrypted Text: dmrieapffitclbgw
  Key: playfair -> Decrypted Text: ehgpqctbraocdpdw
  Key: example -> Decrypted Text: niueqdsblfrqncfv
  Key: keyword -> Decrypted Text: feogqcnbcimchlcx
  Key: random -> Decrypted Text: lifkqctafhpnlcfw
  Key: monarch -> Decrypted Text: fireintheiunglex
○ PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1>
```

Polyalphabetic:

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                                              Code  +  ⌄  ▯  🗑  ···  ⌃  ✕
PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1> python -u "c:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1\substitution-techniques-
attack-2021300089\polyalphabeticattack.py"
Trying key "A": lxmpu
Trying key "B": kwlot
Trying key "C": jvkns
Trying key "D": iujmr
Trying key "E": htilq
Trying key "F": gshkp
Trying key "G": frgjo
Trying key "H": eqfin
Trying key "I": dpehm
Trying key "J": codgl
Trying key "K": bncfk
Trying key "L": ambej
Trying key "M": zladi
Trying key "N": ykzch
Trying key "O": xjybg
Trying key "P": wixaf
Trying key "Q": vhwze
Trying key "R": ugvyd
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS                                              Code  +  ⌄  ▯  🗑  ···  ⌃  ✕
Trying key "ZZH": myfqv
Trying key "ZZI": myeqv
Trying key "ZZJ": mydqv
Trying key "ZZK": mycqv
Trying key "ZZL": mybqv
Trying key "ZZM": myaqv
Trying key "ZZN": myzqv
Trying key "ZZO": myyqv
Trying key "ZZP": myxqv
Trying key "ZZQ": mywqv
Trying key "ZZR": myvqv
Trying key "ZZS": myuqv
Trying key "ZZT": mytqv
Trying key "ZZU": mysqv
Trying key "ZZV": myrqv
Trying key "ZZW": myqqv
Trying key "ZZX": mypqv
Trying key "ZZY": myoqv
Trying key "ZZZ": mynqv
○ PS C:\Users\Sanjay\Desktop\CSS\2021300089 - EXP_1>
```