## Caesar Cipher:

```
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
                     techniques-attack-2021300089\caesar_cipher_attack.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
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1>
```

## Hill Cipher:

```
PS C:\Users\aspun\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspun\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1

\[ \aubstitution-techniques-attack-20213000801\hill_attack.py" \\
Brute-foring... \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 3]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 3]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 5]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 5]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 7]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 7]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 9]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQC \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQQC \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [1, 1]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [1, 2]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [1, 2]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [2, 2]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [2, 2]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [2, 2]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [2, 2]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [2, 3]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [2, 3]] - Decrypted Text: FGIMPQG \\
Trying matrix: [[0, 1], [
```

Monoalphabetic Cipher:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python
41. pwfwb gwfv wky fgjyf
42. bfgfv yfgk fjp gyngg
43. vgygk pgyj gxb ypdby
44. kypyj bypx yvp byzwy
45. jelpyx ybb yp yvp byzwy
46. jelpyx ybb yp yvp byzwy
47. qwfvz jwke vtx kjazk
48. zkjke skjt kaq jxoqj
49. ejxjt qjxa joz xqizx
50. txgxa zwq xie qzneq
51. aqzqo eqzi qnt zestz
52. ozezi tzen zsa ethae
53. ieten aets eho tarot
54. ntats otah tri aodia
55. saoah iaor adn oilno
56. hoior noid ols incsi
57. rinid sinl ich nsuhn
58. dnsnl hnsc nur shums
59. lshos rehu smd hrvdh
60. chrhu dhru hal rdflr
61. undru lrdu rfc dlgcd
62. mdlaw cdfl dgu Leyul
63. wlclf ulcg lym cupne
64. fcucg mcuy cpw umbau
65. gumny wump ubf mwrfm
66. ymunp fmab mwg wfkgw
67. pufub gwfv wky fgjyf
68. bfgfv yfgk fjg gyng
69. vgygk pgyj gxb ypdy
70. kypyj bypx yvp bzyp
70. kypyj bypx ypd pzb
70. kypyj bypx ypd pzb
72. qwlvz juke vtx kjazk
74. zkjke zkjt kaq jxoqj
75. ejxjt qjxa joz xqizx
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
80. hoior noid ols incsi
81. einid sinl ich nsuhn
    83. rinid sinl ich nsuhn
84. dnsnl hnsc nur shærs
85. lshec rshu and hrwdh
86. chrhu dhren hal rdflr
87. urdran lrdu rfc dlgcd
88. mdlok cdlf dgu lcyul
89. wlclf ulcg lym cupmc
90. fcugm gengu cpu cubau
91. gumny wump ubf mavfm
91. gumny wump ubf mavfm
92. ymæng fmab mav wftgar
93. prárb gefv wlyv fgjyf
94. bfgfv yfgk fjp goxpe
95. væygk pæyj geb ypdby
96. kpygj bynx yqv pbzvp
97. jpbpx vyty pbzvp
98. vkytk tyt kjak
98. xbvbq ktvz bej vktjv
99. qvkvz jvke vtz kjak
100. zkjke xkjt kaq jvoqi
PS C:\Users\aspun\0ne0rive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> []
```

## Playfair attack:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1> python -u "c:\Users\aspur\OneDrive\CSS\20213
00101 - EXP_1\2021300101 - EXP_1\substitution-techniques-attack-2021300089\playfair_attack.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\aspur\OneDrive\CSS\2021300101 - EXP 1\2021300101 - EXP 1>
```

## Polyalphabetic Cipher:

```
PS C:\Users\aspur\OneDrive\CSS\2021300101 - EXP_1\2021300101 - EXP_1\2021300101 - EXP_1\2021300101 - EXP_1\2021300101 - EXP_1\substitution-techniques-attack-2021300089\polyalphabetic_attack.py"

Testing key "A": lxmpu

Testing key "B": kwlot

Testing key "C": jvkns

Testing key "C": jvkns

Testing key "E": htilq

Testing key "E": gshkp

Testing key "I": dpehm

Testing key "I": dpehm

Testing key "I": doehm

Testing key "I": ambej

Testing key "K": bncfk

Testing key "K": bncfk

Testing key "M": yladi

Testing key "M": ykzch

Testing key "M": ykzch

Testing key "N": wixaf

Testing key "O": xjybg

Testing key "C": wixaf

Testing key "S": tfuxc

Testing key "S": tfuxc

Testing key "S": setwb

Testing key "U": rdsva

Testing key "W": pbqty

Testing key "W": pbqty

Testing key "W": poapsx

Testing key "W": poapsx

Testing key "Y": nzorw

Testing key "Y": nzorw
```

```
Testing key "ZZA": mymqv
Testing key "ZZC": mylqv
Testing key "ZZC": mylqv
Testing key "ZZC": mylqv
Testing key "ZZE": mylqv
Testing key "ZZF": mylqv
Testing key "ZZF": mylqv
Testing key "ZZF": mylqv
Testing key "ZZF": mylqv
Testing key "ZZH": myqqv
Testing key "ZZI": myeqv
Testing key "ZZI": myeqv
Testing key "ZZI": mydqv
Testing key "ZZI": mydqv
Testing key "ZZI": myqqv
Testing key "ZZI": myqqv
Testing key "ZZW": myqqv
Testing key "ZZW": myqqv
Testing key "ZZW": myqqv
Testing key "ZZO": myyqv
Testing key "ZZO": myyqv
Testing key "ZZP": myqqv
Testing key "ZZP": myqqv
Testing key "ZZP": myqqv
Testing key "ZZI": mytqv
Testing key "ZZI": mytqv
Testing key "ZZI": myqqv
Testing key "ZZI": myqqv
Testing key "ZZI": myqqv
Testing key "ZZV": myqqv
```