

## שאלות:

1. כתוב תוכנית המתחברת לשרת הביטקוין ומבקשת את מספר הבלוקים ורמת הקושי כנתונים המופיעים בנתוני השרשרת.

```
import os
import subprocess
import time
import re

os.system(r"bitcoind -daemon")
time.sleep(9)

cmd = ['bitcoin-cli', 'getblockchaininfo']
proc = subprocess.Popen(cmd, stdout=subprocess.PIPE, stderr=subprocess.PIPE)

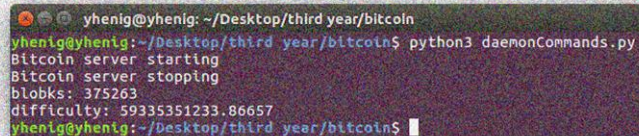
output = proc.communicate()[0].decode('ascii') # all blockchaininfo as a string

os.system(r"bitcoin-cli stop")

try:
    blocks = re.search('"blocks": (.+?),\n', output).group(1)
except AttributeError:
    # not found in the output
    blocks = 'not found any blocks' # apply your error handling

try:
    diff = re.search('"difficulty": (.+?),\n', output).group(1)
except AttributeError:
    # not found in the output
    diff = 'not found any difficulty' # apply your error handling

print("blobs:", blocks)
print("difficulty:", diff)
```



```
yhenig@yhenig: ~/Desktop/third year/bitcoin
yhenig@yhenig:~/Desktop/third year/bitcoin$ python3 daemonCommands.py
Bitcoin server starting
Bitcoin server stopping
blobs: 375263
difficulty: 59335351233.86657
yhenig@yhenig:~/Desktop/third year/bitcoin$
```