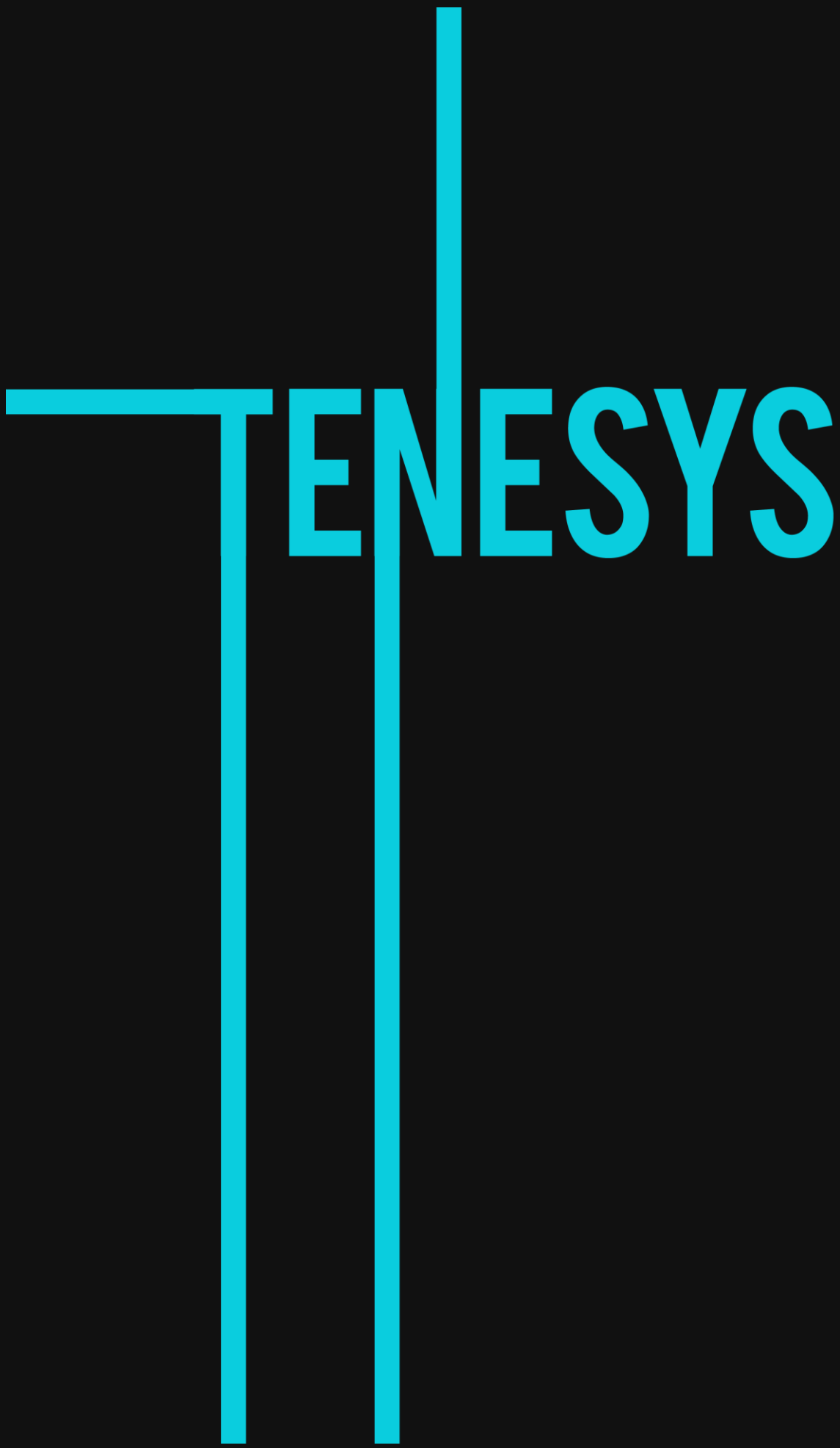
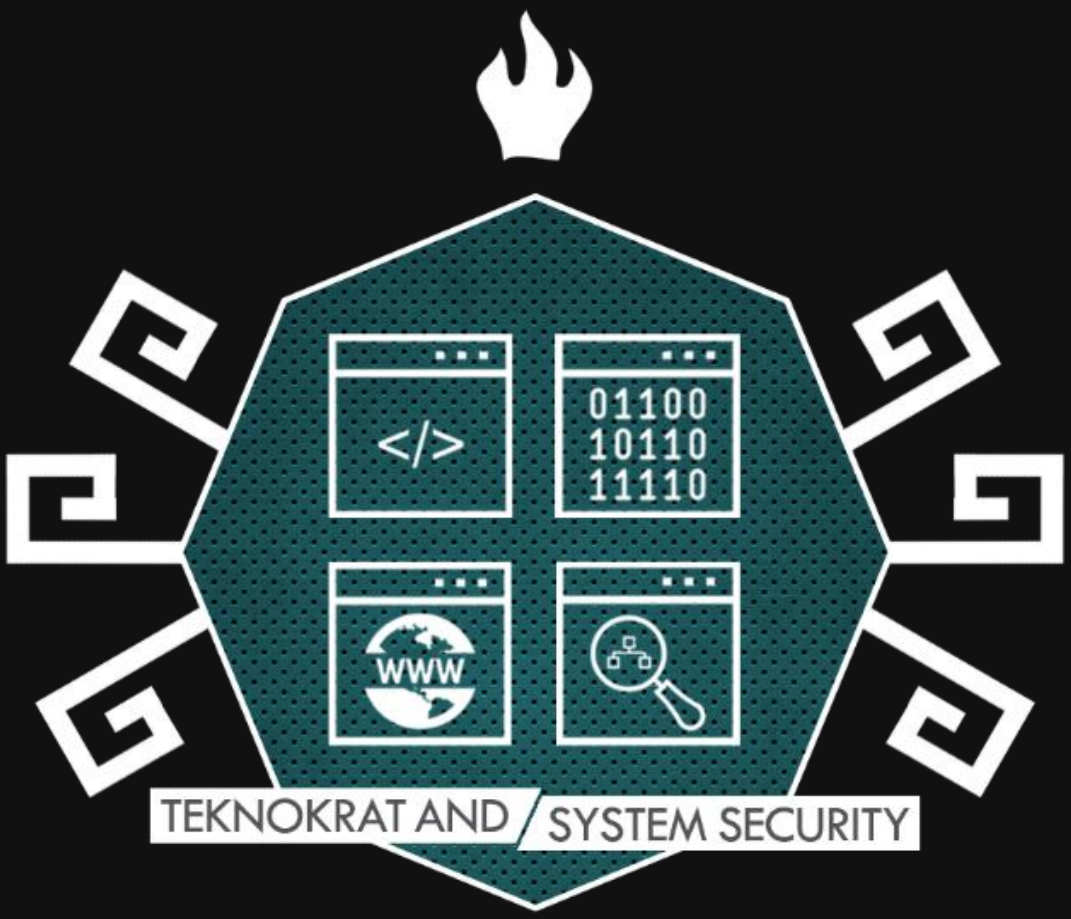

TENESYS



Programming Question 1..... 3
Programming Question 3..... 4

Programming	Programming Question 1	200 Points

Soal

We unearthed this text file from one of the older servers and want to know what this is all about. Could you please analyse this and let us know your finding?

abc.txt: ASCII text, with very long lines, with no line terminators.

File berupa file teks dengan 8986218 karakter.

Solusi

- Soal merupakan kumpulan nilai RGB
- Convert nilai RGB menjadi gambar

```
#!/bin/usr/python

from PIL import Image

data = open('abc.txt').read().strip()
data = data[2:len(data)-2]
data = data.split("), (")
im = Image.new('RGB',(929,569))
i = 0
for y in range(0,569):
     for x in range(0,929):
          rgb = data[i].split(',')
          r = int(rgb[0])
          g = int(rgb[1])
          b = int(rgb[2])
          im.putpixel((x,y),(r,g,b))
          i += 1
im.save('flag.png')
```

- Flag berada di dalam gambar.

Flag adalah **flag{Pil_PIL_PIL}**

Programming	Programming Question 3	300 Points

Soal

Dig deeper and try harder

26685: LZMA compressed data, streamed

Solusi

- Dari deskripsi soal kemungkinan flag di arsip berkali-kali (terlalu lama untuk mengekstrak manual)

```
#!/bin/usr/python

import os
import subprocess
for i in range(7):
     print "[+] "+str(i)
     data = open('26685').read(4)
     temp = 0
     for i in data:
          temp += ord(i)
     print temp
     if temp==221 or temp==214 or temp==518 or temp==178 or
temp==317 or temp==540 or temp==375 or temp==162:
          os.rename('26685','26685.tar')
          os.system("C:\\Users\\me\\Downloads\\26685\\7-
Zip\\7z.exe   x   C:\\Users\\me\\Downloads\\26685\\26685.tar   -
oC:\\Users\\me\\Downloads\\26685\\")
          os.remove("26685.tar")
     if temp==626:
          os.rename('26685','26685.shk')

     os.system("C:\\Users\\me\\Downloads\\26685\\nulib2.exe  -x
C:\\Users\\me\\Downloads\\26685\\26685.shk")
          os.remove("26685.shk")
     if temp==319:
          os.system("C:\\Users\\me\\Downloads\\26685\\lzip.exe
-d           C:\\Users\\me\\Downloads\\26685\\26685           -
oC:\\Users\\me\\Downloads\\26685\\")
```

```
          os.rename('26685.out','26685')
     if temp==284:
          os.rename('26685','26685.zpaq')

     os.system("C:\\Users\\me\\Downloads\\26685\\zpaq64.exe   x
C:\\Users\\me\\Downloads\\26685\\26685.zpaq")
          os.remove("26685.zpaq")
     if temp==280:
          os.rename('26685','26685.zoo')
          os.system("C:\\Users\\me\\Downloads\\26685\\unzoo.exe
-x C:\\Users\\me\\Downloads\\26685\\26685.zoo")
          os.remove("26685.zoo")
```

Hasil text dari ekstraksi terakhir:

```
total 120
drwx------ 2 root     root     28672 Dec 23 21:01 apt-dpkg-install-kKBLWj
-rw-r--r-- 1 root     root     71259 Dec 23 19:50 apt-fast.list
-rw-r--r-- 1 root     root         0 Dec 23 19:50 apt-fast.lock
-rw-r--r-- 1 root     root         0 Dec 23 21:03 secr
drwx------  3  root        root         4096  Dec  23  19:30  systemd-private-
20af98806288452f91376e836938dc35-colord.service-hbUpEj
drwx------   3   root             flag               4096   Dec   23   19:30
63336C756448746861486C35634442684C565A686353467566513D3D
```

Python IDLE

```
>>>"63336C756448746861486C35634442684C565A686353467566513D3D".d
ecode('hex')
'c3ludHthaHl5cDBhLVZhcSFufQ=='

>>>'c3ludHthaHl5cDBhLVZhcSFufQ==".decode('base64')
'synt{ahyyp0a-Vaq!n}'

>>>import codecs
>>>codecs.decode('synt{ahyyp0a-Vaq!n}','rot_13')
u'flag{nullc0n-Ind!a}'
```

Flag adalah **flag{nullc0n-Ind!a}**