

## **PROJECT 3 – PYTHON SCRIPTING**

**CPSC 254 - Fall 2015**

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### 1. Your script's source code

```
import sys
import datetime
import socket
from datetime import timedelta

f1 = open( sys.argv[1], "r" )
f2 = open( sys.argv[2], "a" )

now=datetime.datetime.now()
name=socket.gethostname()

f=open('/proc/uptime', 'r')
uptimeSeconds = float(f.readline().split()[0])
uptimeString = str(timedelta(seconds = uptimeSeconds))
f.close()

i = 0

while uptimeString[i] != ".":
    i = i + 1

uptime = uptimeString[0 : i]

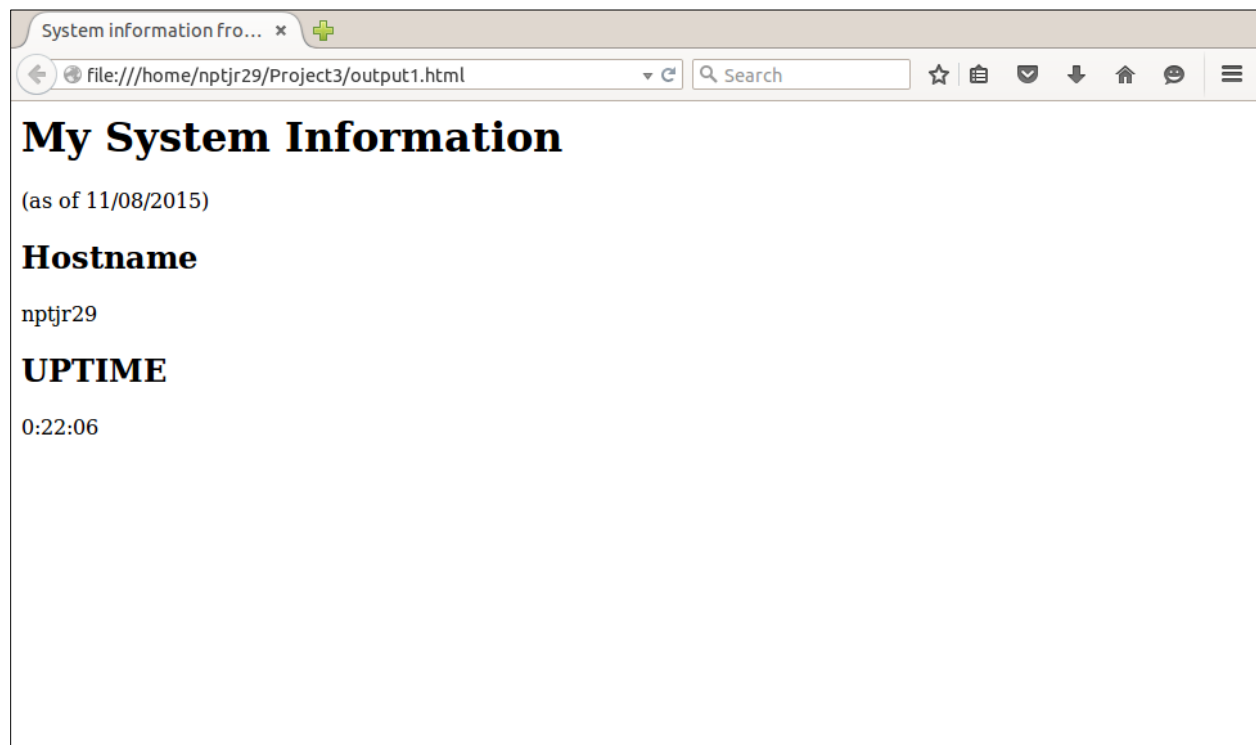
lines=f1.readlines()
for line in lines:
    if "%HOSTNAME%" in line:
        f2.write(line.replace("%HOSTNAME%", name))
    elif "%DATE%" in line:
        f2.write(line.replace("%DATE%", now.strftime("%m/%d/%Y")))
    elif "%UPTIME%" in line:
        f2.write(line.replace("%UPTIME%", uptime))
    else:
        f2.write(line)

f1.close()
f2.close()
~
-- REPLACE --
```

### 2. The HTML code that your script outputs when given test1.html

```
nptjr29@nptjr29:~/Project3$ python project3.py test1.html output1.html
nptjr29@nptjr29:~/Project3$ cat output1.html
<HTML>
<HEAD>
  <TITLE>
    System information from a template
  </TITLE>
</HEAD>
<BODY>
<H1>My System Information</H1>
  (as of 11/08/2015)
<H2>Hostname</H2>
  nptjr29
<H2>UPTIME</H2>
  0:22:06
</BODY>
</HTML>
nptjr29@nptjr29:~/Project3$
```

**3. The code from 2. as displayed by Firefox**

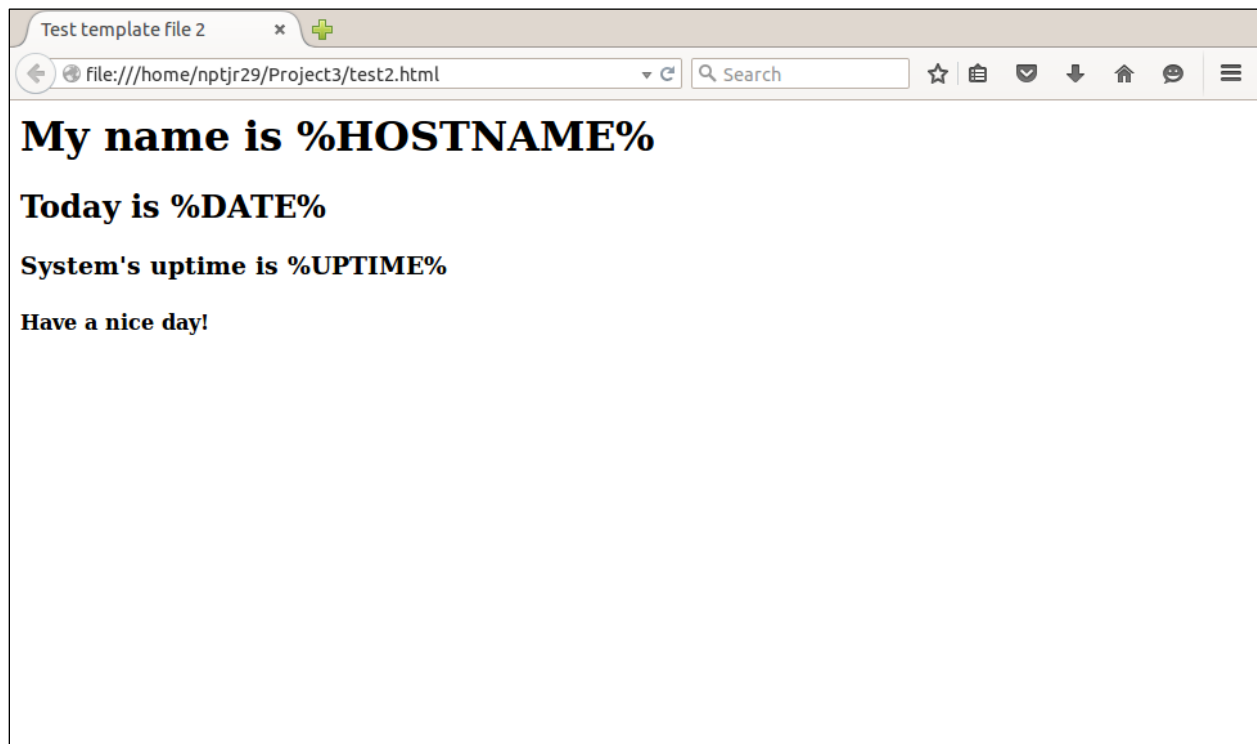


**4. Your HTML source code for** test2.html

```
<HTML>
<HEAD>
  <TITLE>
    Test template file 2
  </TITLE>
</HEAD>

<BODY>
<H1>My name is %HOSTNAME%</H1>
<H2>Today is %DATE%</H2>
<H3>System's uptime is %UPTIME%</H3>
<H4>Have a nice day!</H4>
</BODY>
</HTML>
```

test2.html *as displayed by Firefox*



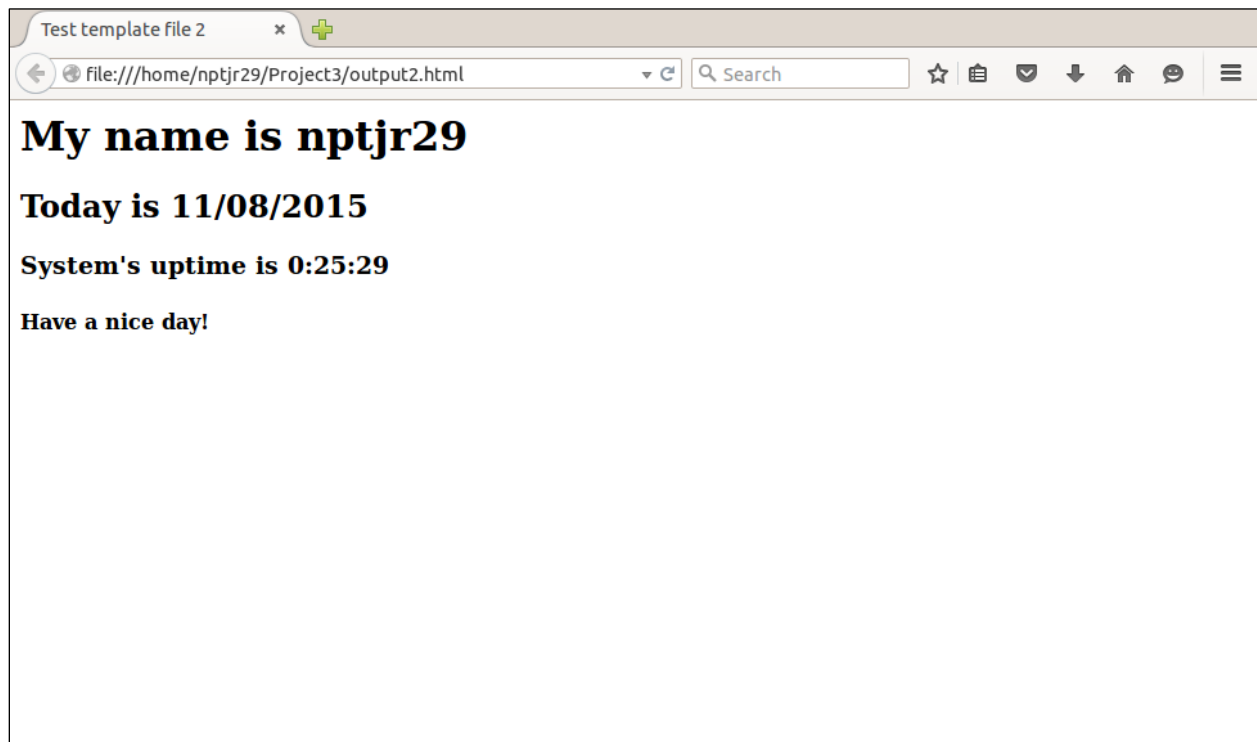
**5. The HTML code that your script outputs when given `test2.html`**

```
nptjr29@nptjr29:~/Project3$ python project3.py test2.html output2.html
nptjr29@nptjr29:~/Project3$ cat output2.html
<HTML>
<HEAD>
  <TITLE>
    Test template file 2
  </TITLE>
</HEAD>

<BODY>
<H1>My name is nptjr29</H1>
<H2>Today is 11/08/2015</H2>
<H3>System's uptime is 0:25:29</H3>
<H4>Have a nice day!</H4>
</BODY>
</HTML>

nptjr29@nptjr29:~/Project3$
```

**6. The code from 5. as displayed by Firefox**



**Reference:**

*System Uptime in Python, A Better Way*

<[http://planzero.org/blog/2012/01/26/system\\_uptime\\_in\\_python,\\_a\\_better\\_way](http://planzero.org/blog/2012/01/26/system_uptime_in_python,_a_better_way)>