



CSE-2010 Secure Coding Secure Coding - Lab 4

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Q 1>

Python scheduler to run a executable file on every “tuesday” of the first week of the month at 10:00

```

python_Scheduler.py x
1
2 # Requirement: "schedule" library > pip install schedule
3
4 import schedule
5 import time
6 from datetime import datetime
7 import os
8
9 # location of the "executable python" file > greetings.exe
10 notepad_location = ''
11 E:/DOCs/Winter_Semester_2020-2021/SecureCoding/Lab/lab-4.1/dist/greetings.exe'''
12
13 def job():
14     day_of_month = datetime.now().day
15     # checking if the to run open the notepad only on first Tuesday of the month
16     if(day_of_month <= 27):
17         print("Opening the \'greetings.exe\'")
18         time.sleep(2)
19         # command to run 'greetings.exe'
20         os.startfile(notepad_location)
21     else:
22         # after 1st week of the month, notify >
23         print("Time period exceeded. \nLet's wait for the next month")
24
25 # default python scheduler syntax
26 schedule.every().tuesday.at("20:01").do(job)
27
28 while True:
29     schedule.run_pending()
30     # scheduler will check every 1 second while it is running
31     time.sleep(1)

```

Q 2>

Convert a python file to an executable file

>

Requirement(s):

+ py2exe > "pip install py2exe"

1. Create a python file to be converted
2. Create a setup.py file that includes

```
setup(console=['python_file_name.py'])
```

3. Create the .exe file by the following command

```
python setup.py py2exe
```

[It'll create a 'dist' folder containing your converted ".exe" file]

Q 3>

```

C:\Command Prompt
Microsoft Windows [Version 10.0.18362.778]
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C:\Users\TARUN KASHYAP>attrib
A             C:\Users\TARUN KASHYAP\.appletviewer
A             C:\Users\TARUN KASHYAP\.condarc
A             C:\Users\TARUN KASHYAP\.node_repl_history
A             C:\Users\TARUN KASHYAP\.packettracer
A             C:\Users\TARUN KASHYAP\.python_history
A             C:\Users\TARUN KASHYAP\msiexec.exe
A H I         C:\Users\TARUN KASHYAP\NTUSER.DAT
A SH          C:\Users\TARUN KASHYAP\ntuser.dat.LOG1
A SH          C:\Users\TARUN KASHYAP\ntuser.dat.LOG2
A SH          C:\Users\TARUN KASHYAP\NTUSER.DAT{fcbe5805-b08f-11ea-86ff-d09466f32199}.TM.blf
A SH          C:\Users\TARUN KASHYAP\NTUSER.DAT{fcbe5805-b08f-11ea-86ff-d09466f32199}.TMContainer000000000000000000
0001.regtrans-ms
A SH          C:\Users\TARUN KASHYAP\NTUSER.DAT{fcbe5805-b08f-11ea-86ff-d09466f32199}.TMContainer000000000000000000
0002.regtrans-ms
A SH          C:\Users\TARUN KASHYAP\NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.blf
A SH          C:\Users\TARUN KASHYAP\NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000000
0001.regtrans-ms
A SH          C:\Users\TARUN KASHYAP\NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000000000000000
0002.regtrans-ms
A SH          C:\Users\TARUN KASHYAP\ntuser.ini
A             C:\Users\TARUN KASHYAP\ntuser.ipynb
A             C:\Users\TARUN KASHYAP\Untitled1.ipynb

C:\Users\TARUN KASHYAP>

```

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```
C:\Users\TARUN KASHYAP>attrib
A          C:\Users\TARUN KASHYAP\.appletviewer
A          C:\Users\TARUN KASHYAP\.condarc
A          C:\Users\TARUN KASHYAP\.node_repl_history
```

```
A      C:\Users\TARUN KASHYAP\.packettracer
A      C:\Users\TARUN KASHYAP\.python_history
A      C:\Users\TARUN KASHYAP\msiexec.exe
A H I      C:\Users\TARUN KASHYAP\NTUSER.DAT
A SH      C:\Users\TARUN KASHYAP\ntuser.dat.LOG1
A SH      C:\Users\TARUN KASHYAP\ntuser.dat.LOG2
A SH      C:\Users\TARUN
KASHYAP\NTUSER.DAT{fcbe5805-b08f-11ea-86ff-d09466f32199}.TM.blf
A SH      C:\Users\TARUN
KASHYAP\NTUSER.DAT{fcbe5805-b08f-11ea-86ff-d09466f32199}.TMContainer00000000
00000000000001.regtrans-ms
A SH      C:\Users\TARUN
KASHYAP\NTUSER.DAT{fcbe5805-b08f-11ea-86ff-d09466f32199}.TMContainer00000000
00000000000002.regtrans-ms
A SH      C:\Users\TARUN
KASHYAP\NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TM.blf
A SH      C:\Users\TARUN
KASHYAP\NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000
0000000000000001.regtrans-ms
A SH      C:\Users\TARUN
KASHYAP\NTUSER.DAT{fd9a35db-49fe-11e9-aa2c-248a07783950}.TMContainer000000
0000000000000002.regtrans-ms
SH      C:\Users\TARUN KASHYAP\ntuser.ini
A      C:\Users\TARUN KASHYAP\Untitled.ipynb
A      C:\Users\TARUN KASHYAP\Untitled1.ipynb
```

```
C:\Users\TARUN KASHYAP>+h
```

'+h' is not recognized as an internal or external command,
operable program or batch file.

```
C:\Users\TARUN KASHYAP>powercfg
```

Invalid Parameters -- try "/?" for help

```
C:\Users\TARUN KASHYAP>powerconfig
```

'powerconfig' is not recognized as an internal or external command,
operable program or batch file.

```
C:\Users\TARUN KASHYAP>powercfg
```

Invalid Parameters -- try "/?" for help

C:\Users\TARUN KASHYAP>powercfg/BATTERYREPORT

Battery life report saved to file path C:\Users\TARUN KASHYAP\battery-report.html.

Battery report

COMPUTER NAME	DESKTOP-SQLIOEP
SYSTEM PRODUCT NAME	Dell Inc. Inspiron 5575
BIOS	1.3.3 10/31/2019
OS BUILD	18362.1.amd64fre.19h1_release.190318-1202
PLATFORM ROLE	Mobile

CONNECTED STANDBY

Not supported

REPORT TIME

2021-03-14 22:57:20

Installed batteries

Information about each currently installed battery

BATTERY 1

NAME

0x52,0x38,0x31,0x41,0x00,0x00,0x00

MANUFACTURER

BYD

SERIAL NUMBER

29

CHEMISTRY

Li-I

DESIGN CAPACITY

41,998 mWh

FULL CHARGE CAPACITY

12,380 mWh

CYCLE COUNT

-

Recent usage

Power states over the last 3 days

START TIME	STATE	SOURCE	CAPACITY REMAINING	
2021-03-12 09:09:38	Active	AC	78 %	9,713 mWh
17:58:41	Suspended		78 %	9,701 mWh
2021-03-13 09:09:29	Active	AC	78 %	9,667 mWh
11:25:14	Suspended		78 %	9,667 mWh
13:59:05	Active	AC	78 %	9,656 mWh
15:35:50	Suspended		78 %	9,656 mWh
17:48:51	Active	AC	78 %	9,656 mWh
20:49:00	Suspended		78 %	9,656 mWh
21:03:06	Active	AC	78 %	9,644 mWh
21:08:57	Suspended		78 %	9,644 mWh
2021-03-14 09:15:52	Active	AC	78 %	9,633 mWh
13:03:00	Suspended		78 %	9,622 mWh
13:09:17	Active	AC	78 %	9,622 mWh
13:26:13	Suspended		78 %	9,622 mWh
18:15:02	Active	AC	78 %	9,610 mWh
20:17:00	Suspended		78 %	9,610 mWh
20:46:56	Active	AC	78 %	9,610 mWh
22:57:18	Report generated	AC	78 %	9,599 mWh

C:\Users\TARUN KASHYAP>powercfg/ENERGY

This command requires administrator privileges and must be executed from an elevated command prompt.

```
C:\Users\TARUN KASHYAP>powercfg/lastwake  
Wake History Count - 0
```

```
C:\Users\TARUN KASHYAP>powercfg/a  
The following sleep states are available on this system:
```

- Standby (S3)
- Hibernate
- Hybrid Sleep
- Fast Startup

The following sleep states are not available on this system:

- Standby (S1)
The system firmware does not support this standby state.

- Standby (S2)
The system firmware does not support this standby state.

- Standby (S0 Low Power Idle)
The system firmware does not support this standby state.

```
C:\Users\TARUN KASHYAP>powercfg/devicequery S1_supported  
Root Print Queue  
Microsoft Print to PDF  
Volume Manager  
WAN Miniport (PPPOE)  
HID-compliant vendor-defined device  
Microsoft Basic Display Driver  
Fax  
USB Root Hub (USB 3.0)  
USB Root Hub (USB 3.0) (001)  
HID-compliant mouse (001)  
VMware Virtual Ethernet Adapter for VMnet1  
VMware Virtual Ethernet Adapter for VMnet8  
WAN Miniport (PPTP)  
Microsoft Hyper-V Virtualization Infrastructure Driver
```


WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Generic USB Hub
Microphone (Realtek Audio)
Microsoft Storage Spaces Controller
Microsoft Kernel Debug Network Adapter
Microsoft XPS Document Writer
AMD High Definition Audio Device
Speakers / Headphones (Realtek Audio)
Generic PnP Monitor
UMBus Root Bus Enumerator
HID-compliant vendor-defined device (004)
Charge Arbitration Driver
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
HID-compliant consumer control device (002)
Microsoft Basic Render Driver
WAN Miniport (SSTP)
VMware VMCI Host Device
HID-compliant vendor-defined device (005)
Microsoft Wi-Fi Direct Virtual Adapter #5
Microsoft Wi-Fi Direct Virtual Adapter #6
NDIS Virtual Network Adapter Enumerator
Realtek USB 2.0 Card Reader
USB Input Device (002)
HID-compliant system controller (001)
USB Input Device (003)
USB Composite Device (003)
HID Keyboard Device
Microsoft System Management BIOS Driver
Plug and Play Software Device Enumerator
Dell Data Vault Control Device
Remote Desktop Device Redirector Bus
Qualcomm QCA9377 Bluetooth
WAN Miniport (IPv6)
WAN Miniport (L2TP)

C:\Users\TARUN KASHYAP>