

# Secure Coding Lab - 4

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## Mid-level

- Write a python script to print hello world.
- Convert the script into executable (use pyinstaller or py2exe – any of your choice).
- Schedule a task named “Python execution” to run the above executable on the first Monday of every month.

```
from datetime import datetime
print("HEY MOO", datetime.today())
import tkinter as tk
root = tk.Tk()
canvas= tk.Canvas(root, width=300,height=300)
canvas.pack()
def hello():
    labell = tk.Label(root, text='Hello World', fg= 'green' , font=('helvetica'))
    canvas.create_window(150,200>window=labell)

button1= tk.Button(text = 'mOO' , command=hello, bg = 'blue' ,fg = 'white')
canvas.create_window(150,150>window=button1)

root.mainloop()
```

```

PS C:\Users\allak\Desktop> pyinstaller --onefile moo.py
62 INFO: PyInstaller: 4.2
62 INFO: Python: 3.9.2
62 INFO: Platform: Windows-10-10.0.19041-SP0
64 INFO: wrote C:\Users\allak\Desktop\moo.spec
67 INFO: UPX is not available.
69 INFO: Extending PYTHONPATH with paths
['C:\Users\allak\Desktop', 'C:\Users\allak\Desktop']
76 INFO: checking Analysis
76 INFO: Building Analysis because Analysis-00.toc is non-existent
77 INFO: Initializing module dependency graph...
79 INFO: Caching module graph hooks...
88 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
92 INFO: Analyzing base_library.zip...
2073 INFO: Processing pre-find module path hook distutils from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks\pre_find_module
path\hook-distutils.py'.
2074 INFO: distutils: Pargetting to non-venv dir 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib'
4622 INFO: Caching module dependency graph...
4734 INFO: running Analysis Analysis-00.toc
4743 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by C:\Users\allak\AppData\Local\Programs\Python\Python39\python.exe
4790 WARNING: lib not found: api-ms-win-core-path-l1-1-0.dll dependency of C:\Users\allak\AppData\Local\Programs\Python\Python39\python39.dll
4825 INFO: Analyzing C:\Users\allak\Desktop\moo.py
4826 INFO: Processing module hooks...
4827 INFO: Loading module hook 'hook-difflib.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4828 INFO: Excluding import of doctest from module difflib
4829 INFO: Loading module hook 'hook-distutils.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4830 INFO: Loading module hook 'hook-distutils.util.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4831 INFO: Excluding import of lib2to3.refactor from module distutils.util
4832 INFO: Loading module hook 'hook-encodings.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4833 INFO: Loading module hook 'hook-heapq.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4911 INFO: Excluding import of doctest from module heapq
4912 INFO: Loading module hook 'hook-lib2to3.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4975 INFO: Loading module hook 'hook-multiprocessing.util.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4976 INFO: Excluding import of test from module multiprocessing.util
4977 INFO: Loading module hook 'hook-pickle.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4978 INFO: Excluding import of argparse from module pickle
4978 INFO: Loading module hook 'hook-sysconfig.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4980 INFO: Loading module hook 'hook-xml.etree.cElementTree.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
4980 INFO: Loading module hook 'hook-xml.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
5021 INFO: Loading module hook 'hook-tkinter.py' from 'C:\Users\allak\AppData\Local\Programs\Python\Python39\lib\site-packages\PyInstaller\hooks'...
5166 INFO: checking Tree

```

```

C:\Users\allak\Desktop> schtasks/create /sc monthly /mo first /D MON /TN "Python execution" /TR "C:\Users\allak\Desktop\dist\moo.exe"
SUCCESS: The scheduled task "Python execution" has successfully been created.

```

## Advanced

- Schedule a task named "Logger" to log your internet explorer activity to a separate text file.

```

chrome_debug - Notepad
File Edit Format View Help
[14804:7720:0226/175445.239:VERBOSE1:chrome_browser_cloud_management_controller.cc(106)] DM token = none
[14804:7720:0226/175445.239:VERBOSE1:chrome_browser_cloud_management_controller.cc(112)] Enrollment token =
[14804:7720:0226/175445.239:VERBOSE1:chrome_browser_cloud_management_controller.cc(113)] Client ID = a26ce155-b764-4dfd-859c-24e6b208d894
[14804:7720:0226/175445.290:VERBOSE1:webRTC_event_log_manager.cc(93)] WebRTC remote-bound event logging enabled.
[14804:7720:0226/175445.297:VERBOSE1:pref_proxy_config_tracker_impl.cc(186)] 000001EB00B33660: set chrome proxy config service to 000001EB00B33AC0
[14804:10300:0226/175445.314:ERROR:cache_util_win.cc(20)] Unable to move the cache: Access is denied. (0x5)
[14804:10300:0226/175445.315:ERROR:cache_util.cc(144)] Unable to move cache folder C:\Users\allak\AppData\Local\Google\Chrome\User Data\ShaderCache\GPUCache to C:\Users\allak\
[14804:10300:0226/175445.315:ERROR:disk_cache.cc(184)] Unable to create cache
[14804:10300:0226/175445.315:ERROR:shader_disk_cache.cc(606)] Shader Cache Creation failed: -2
[14804:7720:0226/175445.331:VERBOSE1:component_updater_service.cc(109)] CrxUpdateService stopping
[14804:7720:0226/175445.334:VERBOSE1:statistics_recorder.cc(430)] Collections of all histograms
Histogram: AsyncDNS.WatchStatus recorded 1 samples, mean = 0.0 (flags = 0x41)
0 .....0 (1 = 100.0%)
1 ...

```

## Advanced

- Schedule a task to defragment any of your local disk daily at 10AM

```

import win32com.shell.shell as shell
commands = 'defrag.exe D:'
shell.ShellExecuteEx(lpVerb='runas', lpFile='cmd.exe', lpParameters='/c '+commands)

```

## ATTRIB

```
Command Prompt - attrib -h -r -s /s /d c:\*.*
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\fr\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\fr-CA\msccust.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\fr-CA\msccust64.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\fr-CA\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\he\msccust.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\he\msccust64.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\he\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\hr\msccust.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\hr\msccust64.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\hr\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\hu\msccust.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\hu\msccust64.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\hu\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\it\msccust.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\it\msccust64.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\it\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\jp\msccust.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\jp\msccust64.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\jp\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\ko\msccust.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\ko\msccust64.cab
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\ko\mscoem.inf
Access denied - C:\Program Files\mcafee\PartnerCore\oeminfo\msc\nl\msccust.cab

C:\Users\allak>attrib +h +r +s /s /d build
C:\Users\allak>
```

## Intermediate

- Schedule a task named "Executer" on your machine to run calculator for every five minutes starting from the specified start time with no end
- Schedule a task named "Executer2" to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day

```
C:\Users\allak>schtasks /create /SC MINUTE /MO 5 /TN "Tasks\18BCN7033_Task2" /TR "C:\Windows\System32\calc.exe" /ST 17:30
SUCCESS: The scheduled task "Tasks\18BCN7033_Task2" has successfully been created.
```

```
C:\Users\allak>schtasks /create /SC DAILY /TN "Tasks\18BCN7033_Task1" /TR "C:\Windows\System32\Notepad.exe" /ST 17:30
SUCCESS: The scheduled task "Tasks\18BCN7033_Task1" has successfully been created.
```

```
C:\Users\allak>schtasks /delete /tn "Tasks\18BCN7033_Task1"
WARNING: Are you sure you want to remove the task "Tasks\18BCN7033_Task1" (Y/N)? y
SUCCESS: The scheduled task "Tasks\18BCN7033_Task1" was successfully deleted.
```

```
C:\Users\allak>schtasks /delete /tn "Tasks\18BCN7033_Task2"
WARNING: Are you sure you want to remove the task "Tasks\18BCN7033_Task2" (Y/N)? y
SUCCESS: The scheduled task "Tasks\18BCN7033_Task2" was successfully deleted.
```

## Powercfg

- Powercfg is a very powerful command for managing and tracking how your computer uses energy.
- >powercfg /energy
- > Powercfg /lastwake
- >powercfg /hibernate on
- > powercfg /hibernate off
- > powercfg /a
- powercfg /devicequery s1\_supported

```
C:\WINDOWS\system32>powercfg /energy
Enabling tracing for 60 seconds...
Observing system behavior...
Analyzing trace data...
Analysis complete.

Energy efficiency problems were found.

10 Errors
15 Warnings
79 Informational

See C:\WINDOWS\system32\energy-report.html for more details.
C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>powercfg /lastwake
Wake History Count - 0
```

```
C:\WINDOWS\system32>_
```

```
C:\WINDOWS\system32>powercfg /hibernate on
```

```
C:\WINDOWS\system32>powercfg /hibernate off
```

```
C:\WINDOWS\system32>powercfg /a
The following sleep states are available on this system:
    Standby (S3)

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.

    Hibernate
        Hibernation has not been enabled.

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

    Hybrid Sleep
        Hibernation is not available.

    Fast Startup
        Hibernation is not available.
```

```

C:\WINDOWS\system32>powercfg /devicequery s1_supported
Speaker/Headphone (Realtek(R) Audio)
HID-compliant device
Generic software component
HID-compliant device (001)
USB Input Device
HID-compliant system controller
Root Print Queue
HID-compliant consumer control device
Intel(R) Dynamic Application Loader Host Interface
Volume Manager
HID-compliant mouse
HID Keyboard Device
Fax
Generic PnP Monitor
WAN Miniport (PPPOE)
USB Audio Device
Microsoft Basic Display Driver
WAN Miniport (PPTP)
Microsoft Hyper-V Virtualization Infrastructure Driver
USB Input Device (001)
Synaptics Service binaries
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Bluetooth LE Enumerator
Microsoft Storage Spaces Controller
Generic software component (001)
Microsoft Kernel Debug Network Adapter
Stereo Mix (Realtek(R) Audio)
Microphone Array (Realtek(R) Audio)
Intel(R) Dynamic Application Loader Host Interface (001)

```

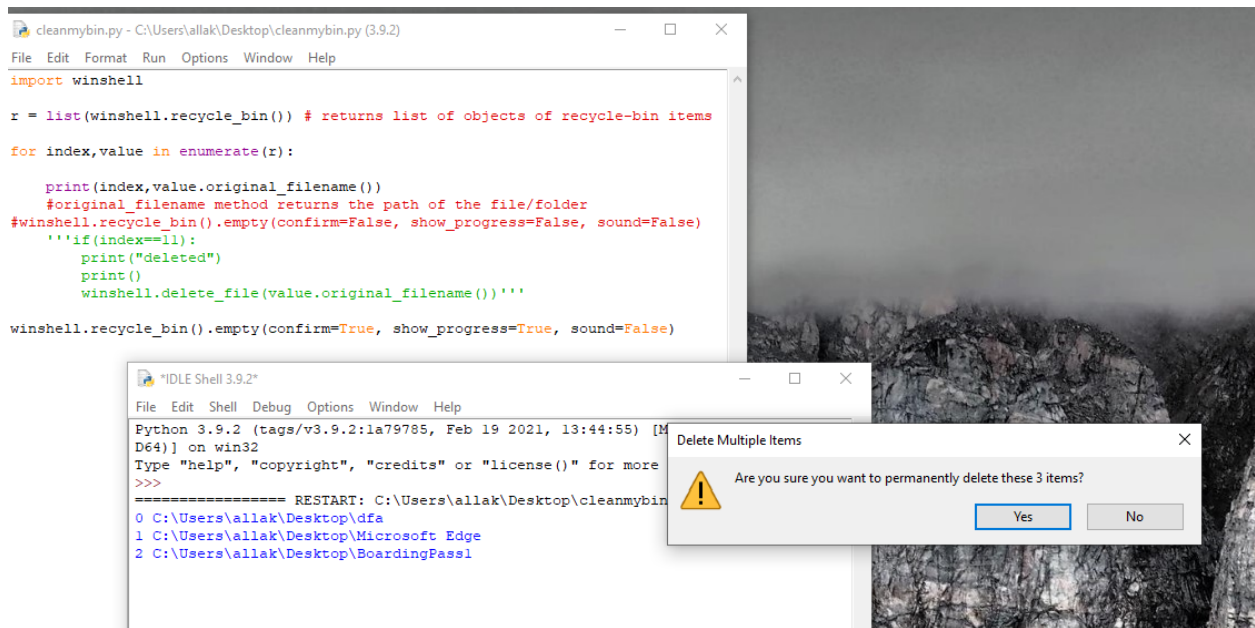
## Write a script to perform the following jobs

- To lock your PC(Win + L)
- To clear your recycle bin

```

>>> import ctypes
>>> ctypes.windll.user32.LockWorkStation()
1
>>>

```



```
Python 3.9.2 (tags/v3.9.2:1a79785, Feb 19 2021, 13:44:55) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\allak\Desktop\cleanmybin.py =====
0 C:\Users\allak\Desktop\dfa
1 C:\Users\allak\Desktop\Microsoft Edge
2 C:\Users\allak\Desktop\BoardingPass1
>>> |
```

