SECURE CODING

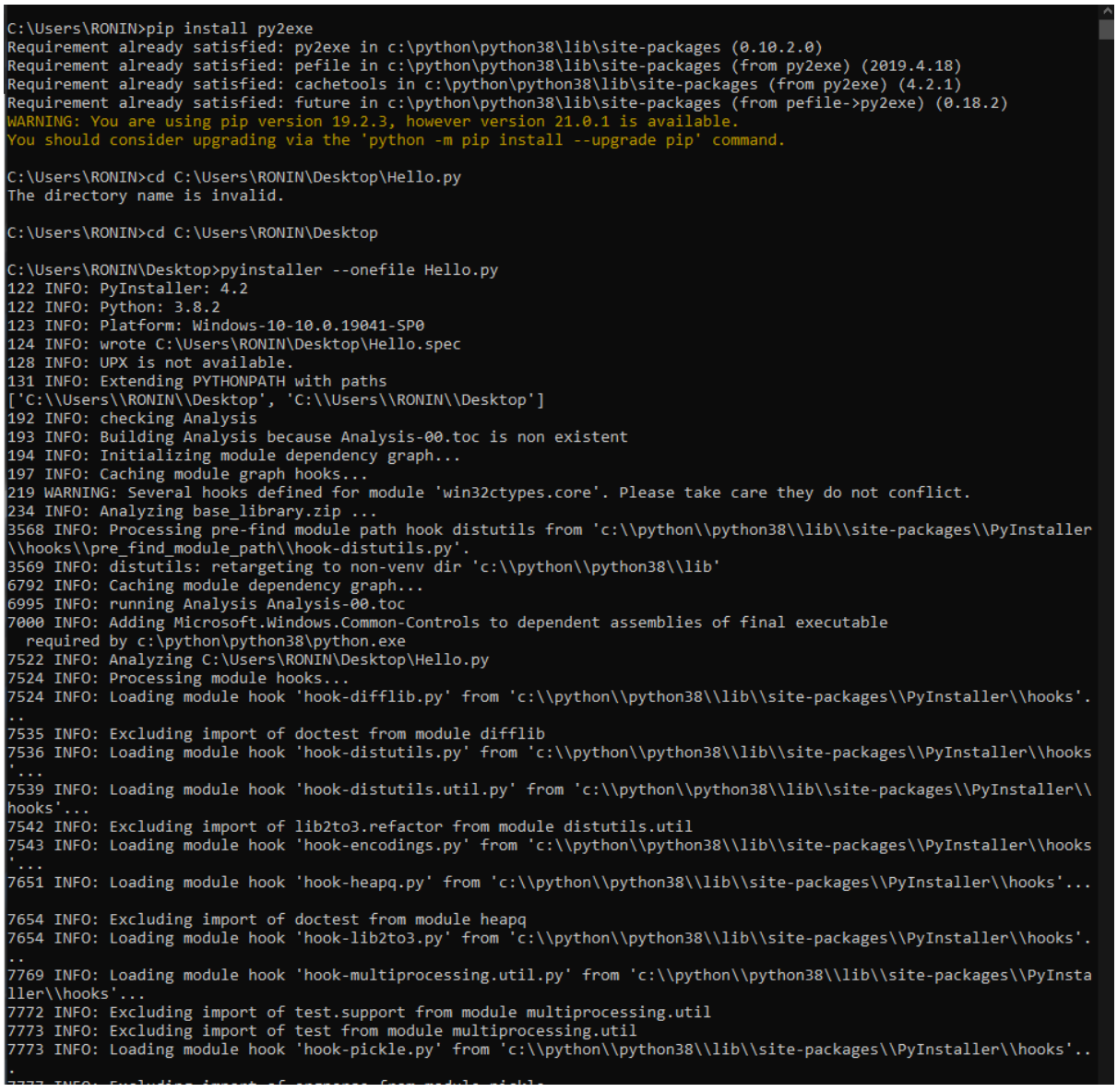
NAME: B. SOHITH PRAKASH

REG NO: 18BCN7036

LAB-5

Scheduled Hello world python script

1. Used pyinstaller to create executable file



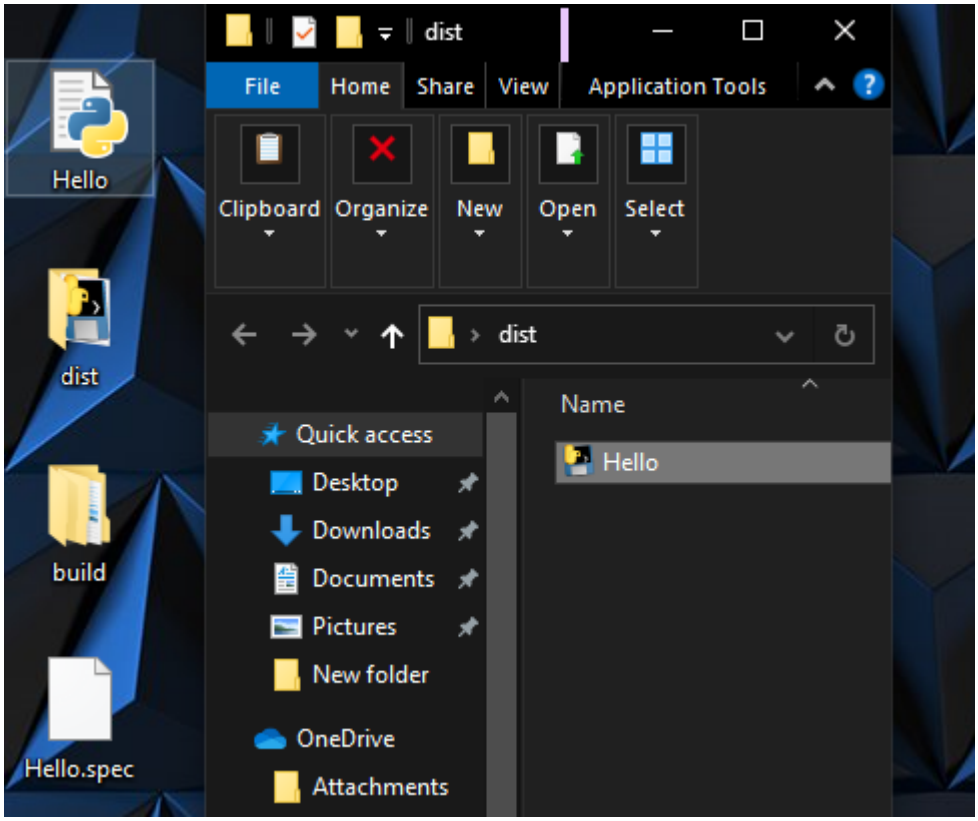
```
C:\Users\RONIN>pip install py2exe
Requirement already satisfied: py2exe in c:\python\python38\lib\site-packages (0.10.2.0)
Requirement already satisfied: pefile in c:\python\python38\lib\site-packages (from py2exe) (2019.4.18)
Requirement already satisfied: cachetools in c:\python\python38\lib\site-packages (from py2exe) (4.2.1)
Requirement already satisfied: future in c:\python\python38\lib\site-packages (from pefile->py2exe) (0.18.2)
WARNING: You are using pip version 19.2.3, however version 21.0.1 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

C:\Users\RONIN>cd C:\Users\RONIN\Desktop\Hello.py
The directory name is invalid.

C:\Users\RONIN>cd C:\Users\RONIN\Desktop

C:\Users\RONIN\Desktop>pyinstaller --onefile Hello.py
122 INFO: PyInstaller: 4.2
122 INFO: Python: 3.8.2
123 INFO: Platform: Windows-10-10.0.19041-SP0
124 INFO: wrote C:\Users\RONIN\Desktop\Hello.spec
128 INFO: UPX is not available.
131 INFO: Extending PYTHONPATH with paths
['C:\\Users\\RONIN\\Desktop', 'C:\\Users\\RONIN\\Desktop']
192 INFO: checking Analysis
193 INFO: Building Analysis because Analysis-00.toc is non existent
194 INFO: Initializing module dependency graph...
197 INFO: Caching module graph hooks...
219 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
234 INFO: Analyzing base_library.zip ...
3568 INFO: Processing pre-find module path hook distutils from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller
\\hooks\\pre_find_module_path\\hook-distutils.py'.
3569 INFO: distutils: retargeting to non-venv dir 'c:\\python\\python38\\lib'
6792 INFO: Caching module dependency graph...
6995 INFO: running Analysis Analysis-00.toc
7000 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
  required by c:\python\python38\python.exe
7522 INFO: Analyzing C:\Users\RONIN\Desktop\Hello.py
7524 INFO: Processing module hooks...
7524 INFO: Loading module hook 'hook-difflib.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller\\hooks'.
..
7535 INFO: Excluding import of doctest from module difflib
7536 INFO: Loading module hook 'hook-distutils.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller\\hooks
'...
7539 INFO: Loading module hook 'hook-distutils.util.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller\\
hooks'...
7542 INFO: Excluding import of lib2to3.refactor from module distutils.util
7543 INFO: Loading module hook 'hook-encodings.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller\\hooks
'...
7651 INFO: Loading module hook 'hook-heapq.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller\\hooks'...

7654 INFO: Excluding import of doctest from module heapq
7654 INFO: Loading module hook 'hook-lib2to3.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller\\hooks'.
..
7769 INFO: Loading module hook 'hook-multiprocessing.util.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInsta
ller\\hooks'...
7772 INFO: Excluding import of test.support from module multiprocessing.util
7773 INFO: Excluding import of test from module multiprocessing.util
7773 INFO: Loading module hook 'hook-pickle.py' from 'c:\\python\\python38\\lib\\site-packages\\PyInstaller\\hooks'..
.
```



Intermediate tasks:

Executer1 and executer2 for calculator and notepad:

```
C:\Users\santhosh>schtasks /CREATE /SC MINUTE /MO 5 /TN EXECUTER /TR "C:\windows\System32\calc.exe" /ST 00:00
SUCCESS: The scheduled task "EXECUTER" has successfully been created.

C:\Users\santhosh>schtasks /CREATE /SC DAILY /TN EXECUTER2 /TR "C:\windows\System32\notepad.exe" /ST 17:00 /ET 17:40 /K
SUCCESS: The scheduled task "EXECUTER2" has successfully been created.
```

Advanced task:

```
Command Prompt
Microsoft Windows [Version 10.0.18363.1379]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\santhosh>schtasks /CREATE /SC DAILY /TN DEFRAGDISK /TR "C:\Windows\System32\Defrag.exe D:" /ST 00:00
SUCCESS: The scheduled task "DEFRAGDISK" has successfully been created.
```

Script to lock computer and to empty recycle bin respectively:

Lockbat - Notepad

File Edit Format View Help

```
@echo off
rund1132.exe user32.dll,LockWorkStation
clc
```

ClearRecycleBin.bat - Notepad

File Edit Format View Help

```
@echo off
rd /s %systemdrive%\$Recycle.bin
cls
```

Attrib command

Command Prompt

```
Microsoft Windows [Version 10.0.19042.844]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\RONIN>attrib/?
Displays or changes file attributes.

ATTRIB [+R | -R] [+A | -A] [+S | -S] [+H | -H] [+O | -O] [+I | -I] [+X | -X] [+P | -P] [+U | -U]
       [drive:][path][filename] [/S [/D]] [/L]

  +   Sets an attribute.
  -   Clears an attribute.
  R   Read-only file attribute.
  A   Archive file attribute.
  S   System file attribute.
  H   Hidden file attribute.
  O   Offline attribute.
  I   Not content indexed file attribute.
  X   No scrub file attribute.
  V   Integrity attribute.
  P   Pinned attribute.
  U   Unpinned attribute.
  B   SMR Blob attribute.
  [drive:][path][filename]
      Specifies a file or files for attrib to process.
  /S  Processes matching files in the current folder
      and all subfolders.
  /D  Processes folders as well.
  /L  Work on the attributes of the Symbolic Link versus
      the target of the Symbolic Link
```

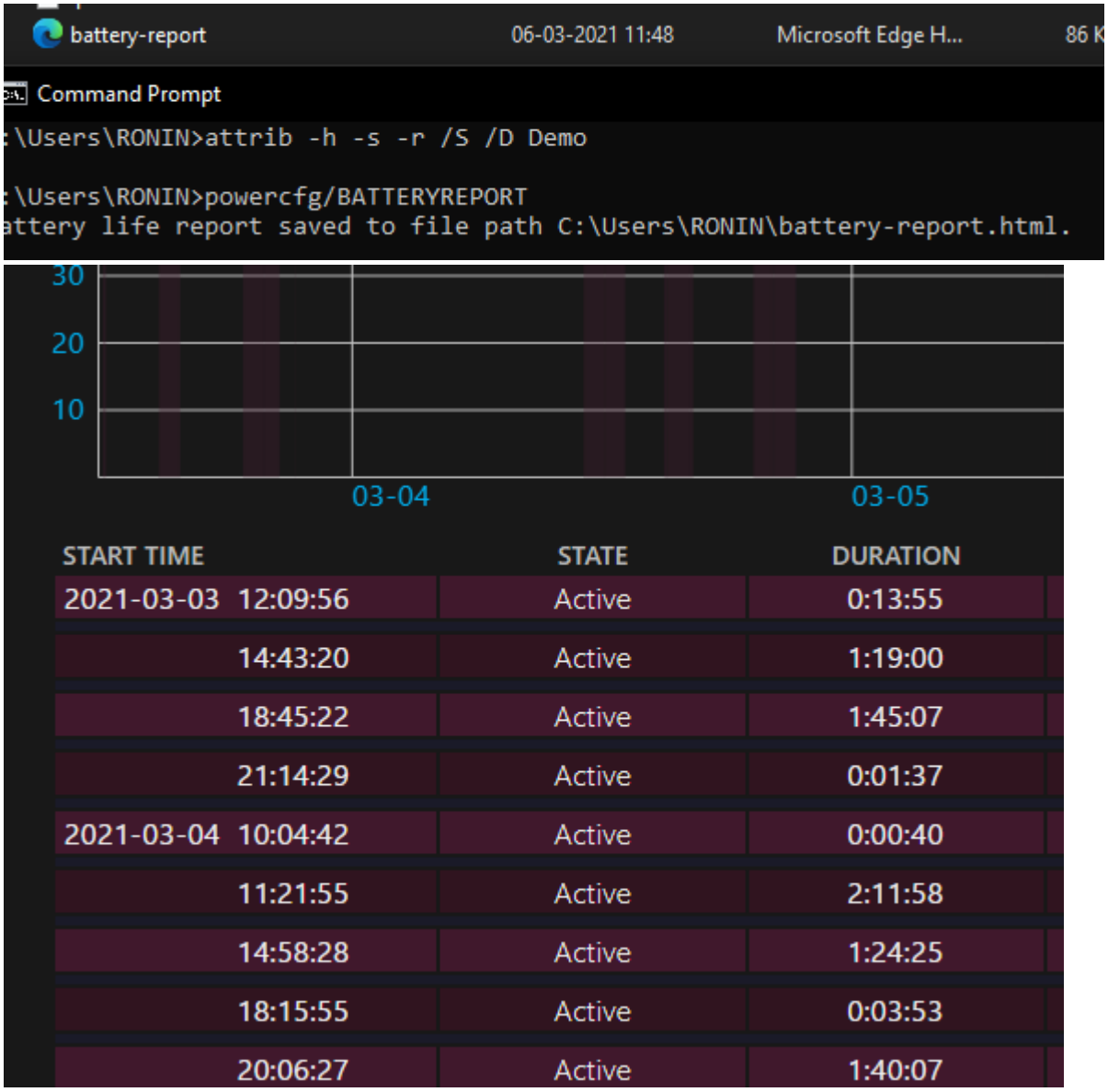
Hiding and retrieving folder:

```
C:\Users\RONIN>attrib +h +s +r /S /D Demo
```

```
C:\Users\RONIN>attrib -h -s -r /S /D Demo
```

Powercfg Commands:

1. Battery report:



2. Lastwake:

```
C:\Users\RONIN>powercfg/lastwake
Wake History Count - 1
Wake History [0]
  Wake Source Count - 0
```

3. Energy Consumption

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

Energy efficiency problems were found.

7 Errors
12 Warnings
45 Informational

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

C:\WINDOWS\system32>
```

4. Hibernate:

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

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

5. Sleep settings:

```
C:\Users\RONIN>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.
```