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REG NO: 18BCE7076
SECURE CODING LAB: L39+L40
Guided By: Prof. Sibi Chakravarthy

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19041.804]
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C:\Windows\system32>pip install pyinstaller
Collecting pyinstaller
  Downloading pyinstaller-4.2.tar.gz (3.6 MB)
    | 3.6 MB 3.3 MB/s
  Installing build dependencies ... done
  Getting requirements to build wheel ... done
  Preparing wheel metadata ... done
Collecting altgraph
  Downloading altgraph-0.17-py2.py3-none-any.whl (21 kB)
Collecting pefile>=2017.8.1; sys_platform == "win32"
  Downloading pefile-2019.4.18.tar.gz (62 kB)
    | 62 kB 4.8 MB/s
Collecting pyinstaller-hooks-contrib>=2020.6
  Downloading pyinstaller_hooks_contrib-2020.11-py2.py3-none-any.whl (172 kB)
    | 172 kB 3.3 MB/s
Collecting pywin32-ctypes>=0.2.0; sys_platform == "win32"
  Downloading pywin32-ctypes-0.2.0-py2.py3-none-any.whl (28 kB)
Requirement already satisfied: setuptools in c:\users\akhil\appdata\local\programs\python\python39\lib\site-packages (from pyinstaller) (49.2.1)
Collecting future
  Downloading future-0.18.2.tar.gz (829 kB)
    | 829 kB 3.2 MB/s
Using legacy 'setup.py install' for pefile, since package 'wheel' is not installed.
Using legacy 'setup.py install' for future, since package 'wheel' is not installed.
Building wheels for collected packages: pyinstaller
  Building wheel for pyinstaller (PEP 517) ... done
  Created wheel for pyinstaller: filename=pyinstaller-4.2-py3-none-any.whl size=2413076 sha256=3eedb86c4d8788e9fc63a05b9f735d7c5baa4147bd6305cf3549eb600f973016
  Stored in directory: c:\users\akhil\appdata\local\pip\cache\wheels\b2\10\66\947cc1c6aebd3e270efd8ec60cf7656d5cbad06c0b34eeal43
Successfully built pyinstaller
Installing collected packages: altgraph, future, pefile, pyinstaller-hooks-contrib, pywin32-ctypes, pyinstaller
  Running setup.py install for future ... done
  Running setup.py install for pefile ... done
Successfully installed altgraph-0.17 future-0.18.2 pefile-2019.4.18 pyinstaller-4.2 pyinstaller-hooks-contrib-2020.11 pywin32-ctypes-0.2.0
WARNING: You are using pip version 20.2.3; however, version 21.0.1 is available.
You should consider upgrading via the 'c:\users\akhil\appdata\local\programs\python\python39\python.exe -m pip install --upgrade pip' command.

C:\Windows\system32>cd ..
C:\Windows>cd ..
C:\>cd Users
C:\Users>cd akhil
C:\Users\akhil>cd Downloads
C:\Users\akhil\Downloads>cd ..
C:\Users\akhil>cd Documents
```

```
Administrator: Command Prompt
C:\Users\akhil\Downloads>cd ..
C:\Users\akhil>cd Documents

C:\Users\akhil\Documents>dir
Volume in drive C has no label.
Volume Serial Number is 9684-61EF

Directory of C:\Users\akhil\Documents

03/03/2021 09:06 PM <DIR> .
03/03/2021 09:06 PM <DIR> ..
02/16/2021 12:20 AM 2,828 RData
02/20/2021 04:49 PM 5,119 Rhistory
12/14/2020 02:22 PM 294,662 18BCD7094_AP2019201000714_DA01.docx
02/13/2021 03:15 PM 504,965 18BCE7076 MAD LAB 2.pdf
02/16/2021 12:11 AM 29,865 18BCE7076_L23+L24-CSE1006 LAB2 ASSIGNMENT.pdf
02/09/2021 04:05 AM 1,232,390 18BCE7076 LAB1-L45+L46.pdf
02/09/2021 09:06 PM 2,782 18BCE7076_WTLAB1.html
02/09/2021 01:30 AM 889,708 18BCN7006_LAB1.pdf
02/25/2021 10:57 PM 20,640 A KRISHNA AKHIL_18BCE7076.pdf
12/14/2020 06:44 PM 114,862 A.Krishna Akhil-Resume.pdf
11/07/2020 01:52 PM 52,880 A.Krishna Akhil.pdf
10/09/2020 05:48 PM <DIR> Ableton
02/23/2021 04:36 PM <DIR> Adobe
10/12/2020 07:31 PM <DIR> Adobe Illustrator
12/04/2020 05:33 PM <DIR> Akhil
02/15/2021 07:04 PM 185,449,984 Andea.mp4
11/07/2020 04:21 PM <DIR> asdad
02/28/2021 11:13 PM <DIR> Books
02/10/2021 10:45 AM 89,472,528 Brock Berrigan-Willis Creek.mp4
11/30/2020 07:24 PM 132,574 CSE 10th Results.pdf
02/17/2021 08:19 PM 214,444 CD Test.pdf
12/04/2020 12:50 PM 2,016,139 Comedy Writing Secrets The Best-Selling Book on How to Think Funny, Write Funny, Act Funny, And Get Paid For It, 2nd Edition by Mel Helitzer, Mark Shatz (z-lib.org).pdf
02/04/2021 08:11 PM 1,108,966 compare-fibre-IaX5aH9sPk-unsplash.jpg
11/30/2020 11:05 PM 7,668 cpu.png
01/30/2021 11:57 AM <DIR> CSE1006 LAB
11/27/2020 10:50 PM <DIR> CSS - My Site
12/27/2020 03:07 AM <DIR> Custom Office Templates
02/09/2021 05:56 PM <DIR> DA lab
03/02/2021 08:14 AM 3,876,737 Data.csv_0.ods
11/17/2020 10:33 AM 225 dectobin.R
02/28/2021 12:08 AM <DIR> DEZin
12/04/2020 12:51 PM 835,192 Do You Talk Funny 7 Comedy Habits to Become a Better and (Funnier) Public Speaker by David Nihill (z-lib.org).epub.pdf
03/02/2021 05:30 PM <DIR> DSProject
02/09/2021 11:10 AM 5,036 Export Recent Trade History (1).xlsx
02/09/2021 03:56 PM 4,968 Export Recent Trade History.xlsx
02/09/2021 09:19 PM 47,936,097 goldeFish-delivery girl.mp4
02/19/2021 12:17 PM 1,392,165 IELTS Academic General Task 2 - How to Write at a Band 9 Level by Ryan Higgins (z-lib.org).pdf
02/19/2021 12:18 PM 8,013,587 IELTS Writing Task 1 Task 2 by Simon Braveman (z-lib.org).pdf
```

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C:\Administrator: Command Prompt
11/10/2020 09:54 AM <DIR> R
02/11/2021 11:39 PM <DIR> 86,578,865 SAFAKASH-West End.mp4
03/04/2021 10:28 AM <DIR> Secure Coding Lab
01/19/2021 12:59 PM 2,324,014 Tathaghat-Paper.pdf
01/26/2021 01:34 PM 66,066,957 The Official Cambridge Guide to IELTS. Student's Book with Answers with DVD-ROM by Pauline Cullen, Amanda French, Vanessa Jakeman (z-lib.org).pdf
02/19/2021 06:57 PM <DIR> Unsplash
01/17/2021 02:48 PM 707,333 us-recognition-list.xlsx
02/28/2021 07:56 PM <DIR> Web Tech Lab
03/01/2021 03:21 PM <DIR> work
39 File(s) 2,801,030,174 bytes
25 Dir(s) 13,914,722,304 bytes free

C:\Users\akhil\Documents>cd Secure Coding Lab
C:\Users\akhil\Documents\Secure Coding Lab> dir
Volume in drive C has no label.
Volume Serial Number is 96B4-61EF

Directory of C:\Users\akhil\Documents\Secure Coding Lab

03/04/2021 10:28 AM <DIR> .
03/04/2021 10:28 AM <DIR> ..
02/24/2021 10:25 PM 64,384 18BCE7076_SC LAB1.pdf
02/12/2021 05:52 PM 154 EnjoySport.csv
03/04/2021 10:28 AM 54 oneex.py
02/22/2021 08:26 PM 6,744 Sclabl.txt
01/27/2021 04:49 PM 6,778 Secure Coding Lab 1.txt
03/04/2021 08:18 AM 336,027 SECURE CODING LAB 3-18BCE7076.pdf
6 File(s) 414,141 bytes
2 Dir(s) 13,915,754,496 bytes free

C:\Users\akhil\Documents\Secure Coding Lab>pyinstaller oneex.py
416 INFO: PyInstaller: 4.2
416 INFO: Python: 3.9.1
417 INFO: Platform: Windows-10-10.0.19041-SP0
418 INFO: wrote C:\Users\akhil\Documents\Secure Coding Lab\oneex.spec
424 INFO: UPX is not available.
438 INFO: Extending PYTHONPATH with paths
['C:\Users\akhil\Documents\Secure Coding Lab',
 'C:\Users\akhil\Documents\Secure Coding Lab']
512 INFO: checking Analysis
512 INFO: Building Analysis because Analysis-00.toc is non existent
512 INFO: Initializing module dependency graph...
516 INFO: Caching module graph hooks...
531 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
564 INFO: Analyzing base_library.zip ...
7140 INFO: Processing pre-find module path hook distutils from 'C:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\hooks\pre_find_module_path\hook-distutils.py'.
7143 INFO: distutils: retargeting to non-venv dir 'C:\Users\akhil\appdata\local\programs\python\python39\lib'
14727 INFO: Caching module dependency graph...
14901 INFO: running Analysis Analysis-00.toc

```

Convert the script into executable (use pyinstaller or py2exe – any of your choice):

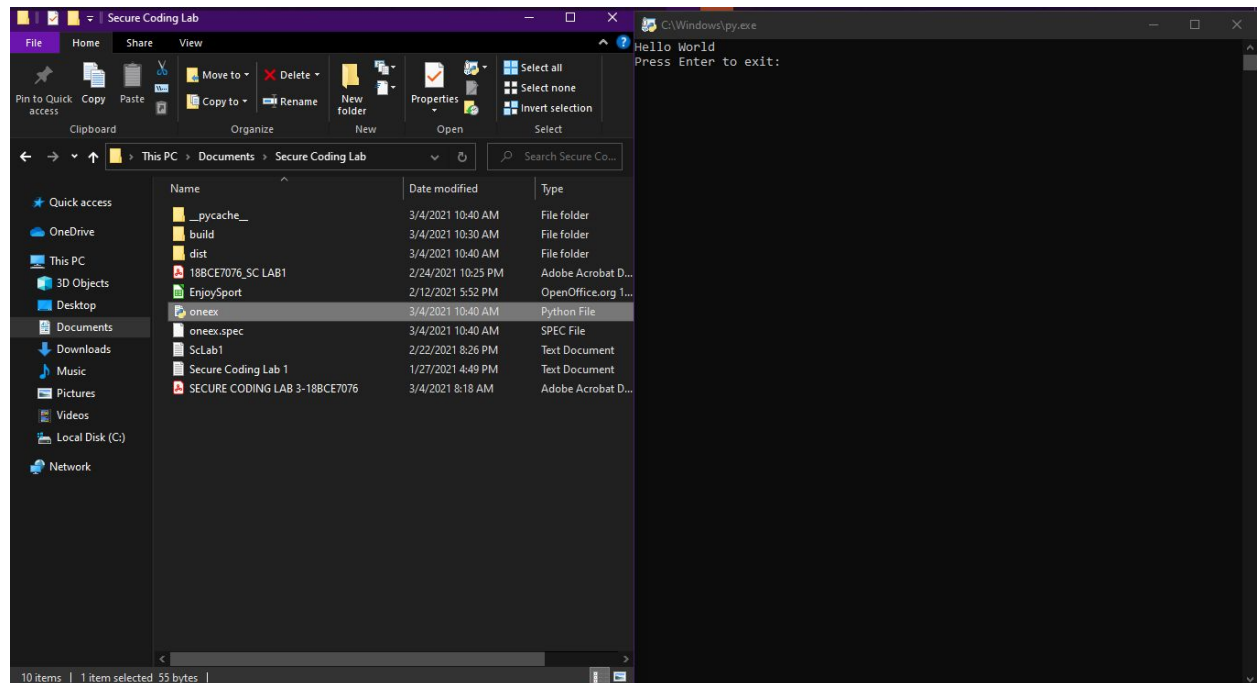
C:\Users\akhil\Documents\Secure Coding Lab>pyinstaller oneex.py

```

C:\Users\akhil\Documents\Secure Coding Lab>pyinstaller oneex.py
130 INFO: PyInstaller: 4.2
130 INFO: Python: 3.9.1
132 INFO: Platform: Windows-10-10.0.19041-SP0
133 INFO: wrote C:\Users\akhil\Documents\Secure Coding Lab\oneex.spec
137 INFO: UPX is not available.
150 INFO: Extending PYTHONPATH with paths
['C:\Users\akhil\Documents\Secure Coding Lab',
 'C:\Users\akhil\Documents\Secure Coding Lab']
176 INFO: checking Analysis
177 INFO: Building Analysis because Analysis-00.toc is non existent
177 INFO: Initializing module dependency graph...
182 INFO: Caching module graph hooks...
193 WARNING: Several hooks defined for module 'win32ctypes.core'. Please take care they do not conflict.
201 INFO: Analyzing base_library.zip ...
4320 INFO: Processing pre-find module path hook distutils from 'C:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\hooks\pre_find_module_path\hook-distutils.py'.
4321 INFO: distutils: retargeting to non-venv dir 'C:\Users\akhil\appdata\local\programs\python\python39\lib'
8747 INFO: Caching module dependency graph...
9038 INFO: running Analysis Analysis-00.toc
9088 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by C:\Users\akhil\appdata\local\programs\python\python39\python.exe
9156 WARNING: lib not found: api-ms-win-core-path-l1-1-0.dll dependency of C:\Users\akhil\appdata\local\programs\python\python39\python39.dll
9253 INFO: Analyzing C:\Users\akhil\Documents\Secure Coding Lab\oneex.py
9256 INFO: Processing module hooks...
9257 INFO: Loading module hook 'hook-difflib.py' from 'C:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\hooks'...
9267 INFO: Excluding import of doctest from module difflib
9268 INFO: Loading module hook 'hook-distutils.py' from 'C:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\hooks'...
9275 INFO: Loading module hook 'hook-distutils.util.py' from 'C:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\hooks'...
9277 INFO: Excluding import of lib2to3.refactor from module distutils.util
9278 INFO: Loading module hook 'hook-encodings.py' from 'C:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\hooks'...

```

```
Administrator Command Prompt
10156 INFO: checking Tree
10156 INFO: Building Tree because Tree-00.toc is non existent
10157 INFO: Building Tree Tree-00.toc
10522 INFO: checking Tree
10522 INFO: Building Tree because Tree-01.toc is non existent
10526 INFO: Building Tree Tree-01.toc
10751 INFO: checking Tree
10752 INFO: Building Tree because Tree-02.toc is non existent
10753 INFO: Building Tree Tree-02.toc
10821 INFO: Looking for ctypes DLLs
10887 INFO: Analyzing run-time hooks ...
10893 INFO: Including run-time hook 'c:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\hooks\vrhooks\pyi_rth_multiprocessing.py'
10910 INFO: Looking for dynamic libraries
11360 INFO: Looking for eggs
11360 INFO: Using Python library c:\Users\akhil\appdata\local\programs\python\python39\python39.dll
11365 INFO: Found binding redirects:
[]
11370 INFO: Warnings written to C:\Users\akhil\Documents\Secure Coding Lab\build\oneex\warn-oneex.txt
11455 INFO: Graph cross-reference written to C:\Users\akhil\Documents\Secure Coding Lab\build\oneex\xref-oneex.html
11492 INFO: checking PYZ
11492 INFO: Building PYZ because PYZ-00.toc is non existent
11497 INFO: Building PYZ (ZlibArchive) C:\Users\akhil\Documents\Secure Coding Lab\build\oneex\PYZ-00.pyz
12771 INFO: Building PYZ (ZlibArchive) C:\Users\akhil\Documents\Secure Coding Lab\build\oneex\PYZ-00.pyz completed successfully.
12808 INFO: checking PKG
12808 INFO: Building PKG because PKG-00.toc is non existent
12809 INFO: Building PKG (Archive) PKG-00.pkg
12855 INFO: Building PKG (Archive) PKG-00.pkg completed successfully.
12857 INFO: Bootloader c:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\bootloader\Windows-64bit\run.exe
12860 INFO: checking EXE
12871 INFO: Building EXE because EXE-00.toc is non existent
12872 INFO: Building EXE from EXE-00.toc
13090 INFO: Copying icons from ['c:\Users\akhil\appdata\local\programs\python\python39\lib\site-packages\PyInstaller\bootloader\images\icon-console.ico']
13165 INFO: Writing RT_GROUP_ICON 0 resource with 104 bytes
13165 INFO: Writing RT_ICON 1 resource with 3752 bytes
13167 INFO: Writing RT_ICON 2 resource with 2216 bytes
13169 INFO: Writing RT_ICON 3 resource with 1384 bytes
13170 INFO: Writing RT_ICON 4 resource with 37019 bytes
13171 INFO: Writing RT_ICON 5 resource with 9640 bytes
13173 INFO: Writing RT_ICON 6 resource with 4264 bytes
13173 INFO: Writing RT_ICON 7 resource with 1128 bytes
13181 INFO: Appending archive to EXE C:\Users\akhil\Documents\Secure Coding Lab\build\oneex\oneex.exe
13438 INFO: Building EXE from EXE-00.toc completed successfully.
13445 INFO: checking COLLECT
13446 INFO: Building COLLECT because COLLECT-00.toc is non existent
13447 INFO: Building COLLECT COLLECT-00.toc
16675 INFO: Building COLLECT COLLECT-00.toc completed successfully.
C:\Users\akhil\Documents\Secure Coding Lab>
```



Schedule a task named “Python execution” to run the above executable on the first Monday of every month:

```
Administrator Command Prompt
16875 INFO: Building COLLECT COLLECT-00.toc completed successfully.
C:\Users\akhil\Documents\Secure Coding Lab>
C:\Users\akhil\Documents\Secure Coding Lab>schtasks /create /tn Python_Execution /tr "C:\Users\akhil\Documents\Secure Coding Lab\oneex.py" /sc weekly /mo 4 /d MON
SUCCESS: The scheduled task "Python_Execution" has successfully been created.
C:\Users\akhil\Documents\Secure Coding Lab>
```

Schedule a task named “Executor” on your machine to run calculator for every five minutes starting from the specified start time with no end:

```
Administrator Command Prompt
SUCCESS: The scheduled task "Python_Execution" has successfully been created.
C:\Users\akhil\Documents\Secure Coding Lab>schtasks /create /tn executor /tr "calculator.exe" /sc minute /mo 5
SUCCESS: The scheduled task "executor" has successfully been created.
C:\Users\akhil\Documents\Secure Coding Lab>
```