

## **LAB-4**

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**SLOT:-**L39+L40

**Write a python script to print hello world:**

```
print("Hello world")
```

```
x=input("Press Enter to exit:")
```
















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

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19042.844]
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C:\Windows\system32>pyinstaller hello.py
97 INFO: PyInstaller: 4.2
98 INFO: Python: 3.9.1
98 INFO: Platform: Windows-10-10.0.19041-SP0
99 INFO: wrote C:\Windows\system32\hello.spec
102 INFO: UPX is not available.
119 INFO: Extending PYTHONPATH with paths
['C:\Windows\system32', 'C:\Windows\system32']
128 INFO: checking Analysis
128 INFO: Building Analysis because Analysis-00.toc is non existent
128 INFO: Initializing module dependency graph...
142 INFO: Caching module graph hooks...
155 WARNING: Several hooks defined for module 'win32types.core'. Please take care they do not conflict.
161 INFO: Analyzing base_library.zip ...
3622 INFO: Processing pre-find module path hook distutils from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks\pre_find_module_path\hook-distutils.py'.
3623 INFO: distutils: retargeting to non-venv dir 'c:\program files\python39\lib'
6568 INFO: Caching module dependency graph...
6729 INFO: running Analysis Analysis-00.toc
6732 INFO: Adding Microsoft.Windows.Common-Controls to dependent assemblies of final executable
required by c:\program files\python39\python.exe
6798 WARNING: lib not found: api-ms-win-core-path-l1-1-0.dll dependency of c:\program files\python39\python39.dll
6817 INFO: Analyzing C:\Windows\system32\hello.py
6819 INFO: Processing module hooks...
6819 INFO: Loading module hook 'hook-difflib.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
6821 INFO: Excluding import of doctest from module difflib
6821 INFO: Loading module hook 'hook-distutils.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
6824 INFO: Loading module hook 'hook-distutils.util.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
6826 INFO: Excluding import of lib2to3.refactor from module distutils.util
6826 INFO: Loading module hook 'hook-encodings.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
6940 INFO: Loading module hook 'hook-heapy.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
6942 INFO: Excluding import of doctest from module heapq
6943 INFO: Loading module hook 'hook-lib2to3.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
7121 INFO: Loading module hook 'hook-multiprocessing.util.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
7123 INFO: Excluding import of test from module multiprocessing.util
7124 INFO: Excluding import of test.support from module multiprocessing.util
7125 INFO: Loading module hook 'hook-pickle.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
7128 INFO: Excluding import of argparse from module pickle
7128 INFO: Loading module hook 'hook-sysconfig.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
7131 INFO: Loading module hook 'hook-xml.etree.cElementTree.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
7132 INFO: Loading module hook 'hook-xml.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
7225 INFO: Loading module hook 'hook-tkinter.py' from 'c:\program files\python39\lib\site-packages\PyInstaller\hooks'...
7419 INFO: checking Tree
7419 INFO: Building Tree because Tree-00.toc is non existent
7420 INFO: Building Tree Tree-00.toc
7492 INFO: checking Tree
7492 INFO: Building Tree because Tree-01.toc is non existent
7493 INFO: Building Tree Tree-01.toc
```

```
7598 INFO: checking Tree
7598 INFO: Building Tree because Tree-02.toc is non existent
7599 INFO: Building Tree Tree-02.toc
7622 INFO: Looking for ctypes DLLs
7658 INFO: Analyzing run-time hooks ...
7661 INFO: Including run-time hook 'c:\program files\python39\lib\site-packages\PyInstaller\hooks\rthooks\pyi_rth_multiprocessing.py'
7671 INFO: Looking for dynamic libraries
7956 INFO: Looking for eggs
7957 INFO: Using Python library c:\program files\python39\python39.dll
7958 INFO: Found binding redirects:
[]
7962 INFO: Warnings written to C:\Windows\system32\build\hello\warn-hello.txt
8018 INFO: Graph cross-reference written to C:\Windows\system32\build\hello\xref-hello.html
8037 INFO: checking PYZ
8037 INFO: Building PYZ because PYZ-00.toc is non existent
8038 INFO: Building PYZ (ZlibArchive) C:\Windows\system32\build\hello\PYZ-00.pyz
8713 INFO: Building PYZ (ZlibArchive) C:\Windows\system32\build\hello\PYZ-00.pyz completed successfully.
8733 INFO: checking PKG
8733 INFO: Building PKG because PKG-00.toc is non existent
8734 INFO: Building PKG (CArchive) PKG-00.pkg
8772 INFO: Building PKG (CArchive) PKG-00.pkg completed successfully.
8773 INFO: Bootloader c:\program files\python39\lib\site-packages\PyInstaller\bootloader\Windows-64bit\run.exe
8774 INFO: checking EXE
8775 INFO: Building EXE because EXE-00.toc is non existent
8776 INFO: Building EXE from EXE-00.toc
8779 INFO: Copying icons from ['c:\program files\python39\lib\site-packages\PyInstaller\bootloader\images\icon-console.ico']
8890 INFO: Writing RT_GROUP_ICON 0 resource with 104 bytes
8891 INFO: Writing RT_ICON 1 resource with 3752 bytes
8893 INFO: Writing RT_ICON 2 resource with 2216 bytes
8895 INFO: Writing RT_ICON 3 resource with 1384 bytes
8896 INFO: Writing RT_ICON 4 resource with 37019 bytes
8897 INFO: Writing RT_ICON 5 resource with 9640 bytes
8897 INFO: Writing RT_ICON 6 resource with 4264 bytes
8897 INFO: Writing RT_ICON 7 resource with 1128 bytes
8901 INFO: Appending archive to EXE C:\Windows\system32\build\hello\hello.exe
8919 INFO: Building EXE from EXE-00.toc completed successfully.
8923 INFO: checking COLLECT
8924 INFO: Building COLLECT because COLLECT-00.toc is non existent
8925 INFO: Building COLLECT COLLECT-00.toc
9274 INFO: Building COLLECT COLLECT-00.toc completed successfully.

C:\Windows\system32>
```

-  Analysis-00.toc
-  base\_library.zip
-  COLLECT-00.toc
-  EXE-00.toc
-  hello.exe
-  hello.exe.manifest
-  PKG-00.pkg
-  PKG-00.toc
-  PYZ-00.pyz
-  PYZ-00.toc
-  Tree-00.toc
-  Tree-01.toc
-  Tree-02.toc
-  warn-hello.txt
-  xref-hello.html

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

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19042.844]
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C:\Windows\system32>schtasks /create /tn Py_Execution /tr "C:\Windows\System32\build\hello.exe" /sc weekly /mo 4 /d MON
SUCCESS: The scheduled task "Py_Execution" has successfully been created.

C:\Windows\system32>
```

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

```
C:\Windows\system32>schtasks /create /tn executor /tr "calculator.exe" /sc minute /mo 5
SUCCESS: The scheduled task "executor" has successfully been created.

C:\Windows\system32>
```

**Schedule a task named “Executer2” to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day.**

```
C:\Windows\system32>schtasks /create /tn Executer2 /tr "notepad.exe" /sc daily /st 17:00 /et 17:40
SUCCESS: The scheduled task "Executer2" has successfully been created.

C:\Windows\system32>
```

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

```
C:\Windows\system32>schtasks /create /tn Executor_3 /tr "defrag.exe C:" /sc daily /st 10:00
SUCCESS: The scheduled task "Executor_3" has successfully been created.

C:\Windows\system32>
```

**PowerCFG:**

```
C:\Windows\system32>powercfg /lastwake
Wake History Count - 1
Wake History [0]
Wake Source Count - 1
Wake Source [0]
Type: Device
Instance Path: PCI\VEN_8086&DEV_A36D&SUBSYS_12621025&REV_10\3&11583659&0&A
Friendly Name: Intel(R) USB 3.1 eXtensible Host Controller - 1.10 (Microsof
Description: USB xHCI Compliant Host Controller
Manufacturer: Generic USB xHCI Host Controller

C:\Windows\system32>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:\Windows\system32>
```

## **Write a script to perform the following jobs:**

*To lock your windows PC (Windows+L):*

```
import ctypes
```

```
ctypes.windll.user32.LockWorkStation()
```

*To clear your Recycle Bin:*

```
import winshell
```

```
winshell.recycle_bin().empty(confirm=False, show_progress=False, sound=False)
```