Readme:

Name of the Application: NiceTestApp.py

Application "NiceTestApp" is a python-based application which will provide the system information. NiceTestApp.exe – for windows-based OS NiceTestApp – for Linux-based OS

- Requirement: Utils being used to build the application on Linux &Windows OS
 Yum, epel, Python3, pip3, Wheel, pyinstaller
- Libraries imported for application development platform, subprocess, sys, os, psutil
- OS version for testing the application: -
 - Linux OS used Red Hat Enterprise Linux Server release 7.9 (Maipo)
 - Windows OS used Microsoft Windows 10.
- ➤ Results of application execution –
- *Linux Based Application execution-

```
./NiceTestApp
[Nice@nice-vm dist]$ ./NiceTestApp
Hostname: nice-vm.1f1jqfnn02uubho45aroti34jg.xx.internal.cloudapp.net
Total Number of Hard Disks: 2

Total Number of Cores: 2

Total Physical Memory: 7.6G

Top 5 processes in terms of CPU:
PID %CPU COMMAND
16351 1.3 NiceTestApp
1885 0.4 python
1 0.0 systemd
```

-With Argument's

```
./NiceTestApp -help
```

NiceTestApp -NoipeTestApp -help
[NiceQnice-vm dist]\$./NiceTestApp -help
This application 'NiceTestApp' will help you to get the current system information.
You can use 'NiceTestApp -logInfo' to get the information in NiceTestApp.log file
[NiceQnice-vm dist]\$ ■

./NiceTestApp -logInfo (output to NiceTestApp.log)

```
INice@nice-vm dist]$ ./NiceTestApp -logInfo
Hostname: nice-vm.1f1jqfnn02uubho45aroti34jg.xx.internal.cloudapp.net

Total Number of Hard Disks: 2

Total Number of Cores: 2

Total Physical Memory: 7.66

Top 5 processes in terms of CPU:
PID %CPU COMMAND
16408 1.3 NiceTestApp
1845 0.4 python
16412 0.2 python
1 0.0 systemd

[Nice@nice-vm dist]$ ls -lthr
total 6.3M
-rwxr-xx-x. 1 Nice Nice 6.3M Apr 25 14:47 NiceTestApp
-rw-rw-r--. 1 Nice Nice 312 Apr 25 14:50 NiceTestApp.log
```

Unsupported argument pass to application -

```
[Nice@nice-vm dist]$ ./NiceTestApp -logInfoasdf
Unsupported argument(s) passed: -logInfoasdf
Use 'NiceTestApp -help' for more information.
[Nice@nice-vm dist]$ ./NiceTestApp -hi
Unsupported argument(s) passed: -hi
Use 'NiceTestApp -help' for more information.
[Nice@nice-vm dist]$
```

*Windows Based Application execution -

```
./NiceTestApp.exe
  ostname: DESKTOP-MN80HD5
Total Physical Memory: 4,026 MB
Total Number of Cores: 8
 Total Number of Hard Disks: 6
Top 5 processes in terms of CPU:
PID: 0, Name: System Idle Process, CPU Percent: 0.0%
PID: 4, Name: System, CPU Percent: 0.0%
PID: 8, Name: fontdryhost.exe, CPU Percent: 0.0%
PID: 56, Name: , CPU Percent: 0.0%
PID: 108, Name: Registry, CPU Percent: 0.0%
-With Argument's (-help and -logInfo)
./NiceTestApp.exe -help
This application 'NiceTestApp' will help you to get the current system information.
You can use 'NiceTestApp -logInfo' to get the information in NiceTestApp.log file
 ./NiceTestApp.exe -logInfo (output to NiceTestApp.log)
                                                                                                                         ./NiceTestApp.exe -logInf
Hostname: DESKTOP-MN80HD5
Total Physical Memory: 4,026 MB
Total Number of Cores: 8
Total Number of Hard Disks: 6
Top 5 processes in terms of CPU:
PID: 0, Name: System Idle Process, CPU Percent: 0.0%
PID: 4, Name: System, CPU Percent: 0.0%
PID: 8, Name: fontdrvhost.exe, CPU Percent: 0.0%
PID: 56, Name: , CPU Percent: 0.0%
PID: 108, Name: Registry, CPU Percent: 0.0%
                                                                                                     inux6 2/dist  ls -lthr
 total 3439
-rwxr-xr-x
                                                            6.7M Apr 25 21:00 NiceTestApp.exe
414 Apr 25 21:07 NiceTestApp.log
                                         UsersGrp
 -rwxr-xr-x
                                        UsersGrp
Unsupported argument pass to application -
                                                                                                                                   'dist ./NiceTestApp.exe hello
```

upported argument(s) passed: hello
'NiceTestApp -help' for more information.

Note:-

If we run direct python code using python command (main python code – python NiceTEstApp.py) instead of build application, It will identify the current OS and execute the Windows or Linux code accordingly. On Windows

```
Hostname: DESKTOP-MN80HD5
Total Physical Memory: 4,026 MB
Total Number of Cores: 8
Total Number of Hard Disks: 6
        5 processes in terms of CPU:
0, Name: System Idle Process, CPU Percent: 0.0%
4, Name: System, CPU Percent: 0.0%
8, Name: fontdrvhost.exe, CPU Percent: 0.0%
56, Name: CPU Percent: 0.0%
108, Name: Registry, CPU Percent: 0.0%
```

On Linux

```
[Nice@nice-vm win_linux6_2]$ python3 NiceTestApp.py
Hostname: nice-vm.1f1jqfnn02uubho45aroti34jg.xx.internal.cloudapp.net
Total Number of Hard Disks: 2
Total Number of Cores: 2
Total Physical Memory: 7.6G
 Top 5 processes in terms of CPU:
PID %CPU COMMAND
20656 0.6 python3
1885 0.4 python
1 0.0 systemd
2 0.0 kthreadd
[Nice@nice-vm win linux6 2]$
```

Thanks, Prashish