18BCE7207

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Lab-4

1.Python script:- Contains a button,it shows hello world when the button is clicked.

```python
import tkinter as tk
root= tk.Tk()
canvas1 = tk.Canvas(root, width = 300, height = 300)
canvas1.pack()
def hello ():
    label1 = tk.Label(root, text= 'Hello World!', fg='green',
font=('helvetica', 12, 'bold'))
    canvas1.create_window(150, 200, window=label1)


button1 = tk.Button(text='Click Me',command=hello,
bg='brown',fg='white')
canvas1.create_window(150, 150, window=button1)


root.mainloop()
```
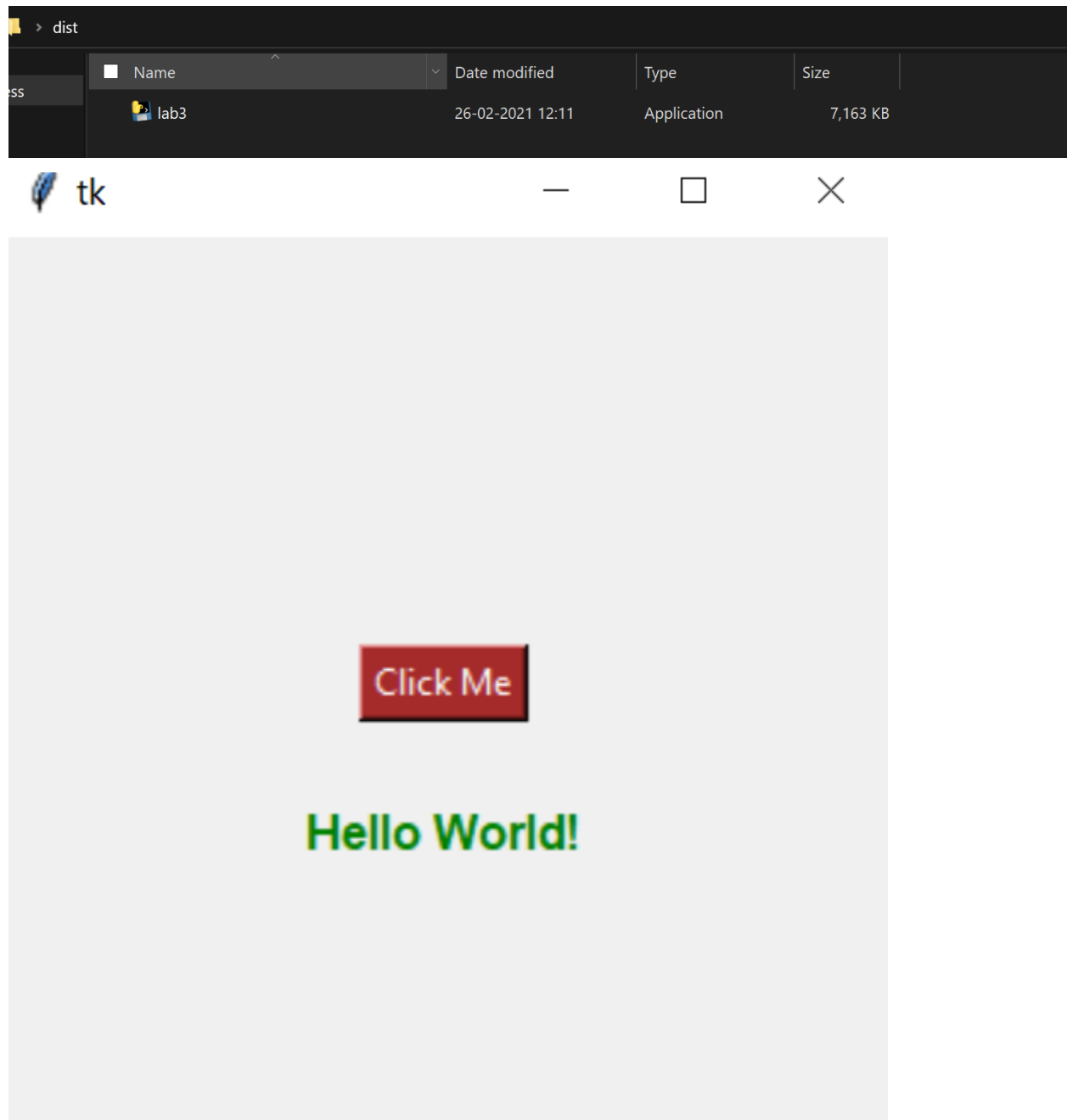
Converting python file to executable

Executable file:-

Scheduling a task named as python execution :-

```
C:\Users\Lekhana Ginjupalli>schtasks /create /sc weekly /d mon /tn "python execution" /tr "C:\Users\Lekhana Ginjupalli\D
esktop\dist" /st 13:00
SUCCESS: The scheduled task "python execution" has successfully been created.
```

2.Schedule a task named "Executer" on your machine to run calculator for every five minutes starting from the specified start time with no end.

```
C:\Users\Lekhana Ginjupalli>schtasks /create /sc minute /mo 5 /tn "Executer" /tr  "C:\Windows\System32\calc.exe" /ST 13:00
SUCCESS: The scheduled task "Executer" has successfully been created.
```

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

```
C:\Users\Lekhana Ginjupalli>schtasks /create /sc daily /tn "Executer2" /tr "C:\windows\SysWoW64\Notepad.exe" /ST 17:00 /ET 17:40
SUCCESS: The scheduled task "Executer2" has successfully been created.
```

3.Powercfg :- also called power schemes - to use the available sleep states, to control the power states of individual devices, and to analyze the system for common energy-efficiency and battery-life problems.

Energy command:- Analyzes the system for common energy-efficiency and battery life problems.

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

Energy efficiency problems were found.

3 Errors
17 Warnings
46 Informational

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

Lastwake command:- reports the information about what woke the system from the last sleep transition.

```
C:\WINDOWS\system32>powercfg/lastwake
Wake History Count - 1
Wake History [0]
  Wake Source Count - 0
```

Hibernate :- enables and disables the hibernate feature.

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

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

/a :- reports the sleep states in available system

```
C:\WINDOWS\system32>powercfg/a
The following sleep states are available on this system:
    Standby (S0 Low Power Idle) Network Connected

The following sleep states are not available on this system:
    Standby (S1)
        The system firmware does not support this standby state.
        This standby state is disabled when S0 low power idle is supported.

    Standby (S2)
        The system firmware does not support this standby state.
        This standby state is disabled when S0 low power idle is supported.

    Standby (S3)
        The system firmware does not support this standby state.
        This standby state is disabled when S0 low power idle is supported.

    Hibernate
        Hibernation has not been enabled.

    Hybrid Sleep
        Standby (S3) is not available.
        Hibernation is not available.

    Fast Startup
        Hibernation is not available.
```

Emptying the recycle bin :-

```
C:\WINDOWS\system32>rd /s %systemdrive%\$Recycle.bin
C:\$Recycle.bin, Are you sure (Y/N)? Y
```

☐ Name	Original Location	Date Deleted	Size	Item type
		This folder is empty.		
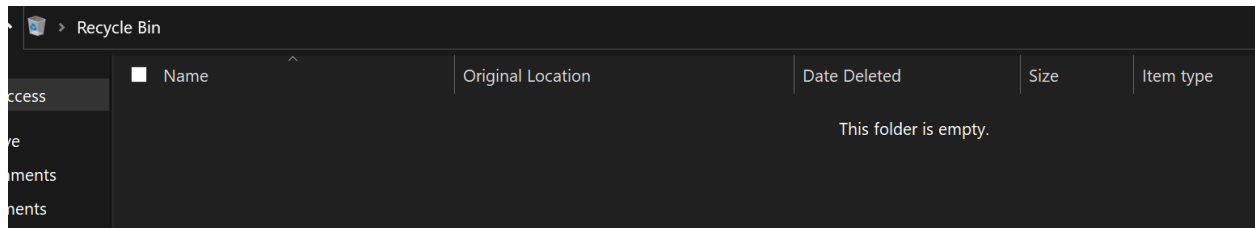
To lock the pc, type rundll32.exe user32.dll, LockWorkStation. After typing this and clicking enter,pc will automatically get locked.

Defragmenting a disk:-

```
C:\WINDOWS\system32>defrag /?
Microsoft Drive Optimizer
Copyright (c) Microsoft Corp.

Description:

        Optimizes and defragments files on local volumes to
        improve system performance.

Syntax:

        defrag <volumes> | /C | /E <volumes> [<task(s)>] [/H] [/M [n] | [/U] [/V]] [/I n]

        Where <task(s)> is omitted (traditional defrag), or as follows:
                /A | [/D] [/K] [/L] | /O | /X

        Or, to track an operation already in progress on a volume:
        defrag <volume> /T

Parameters:

        Value    Description
        /A       Perform analysis on the specified volumes.
        /C       Perform the operation on all volumes.
        /D       Perform traditional defrag (this is the default).  On a tiered volume
                 though, traditional defrag is performed only on the Capacity tier.
        /E       Perform the operation on all volumes except those specified.
        /G       Optimize the storage tiers on the specified volumes.
        /H       Run the operation at normal priority (default is low).
        /I n     Tier optimization would run for at most n seconds on each volume.
        /K       Perform slab consolidation on the specified volumes.
        /L       Perform retrim on the specified volumes.
        /M [n]   Run the operation on each volume in parallel in the background.
                 At most n threads optimize the storage tiers in parallel.
        /O       Perform the proper optimization for each media type.
        /T       Track an operation already in progress on the specified volume.
        /U       Print the progress of the operation on the screen.
        /V       Print verbose output containing the fragmentation statistics.
        /X       Perform free space consolidation on the specified volumes.

Examples:

        defrag C: /U /V
        defrag C: D: /M
        defrag C:\mountpoint /A /U
        defrag /C /H /V
```
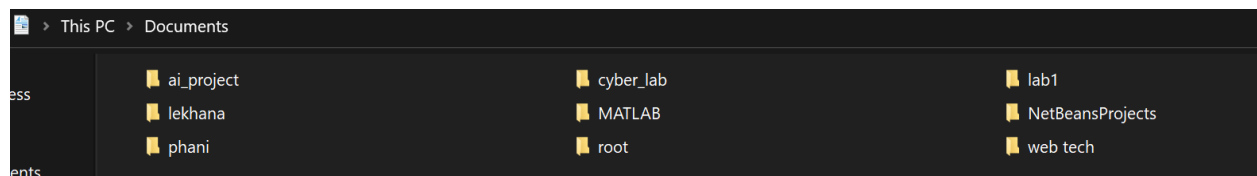
Schedule a task to defragment any of your local disk daily at 10AM

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

The attrib command displays or changes the file attributes for a file or folder. It's run from the Command Prompt in all versions of Windows.
Using attrib command, secure_lab folder is hided.The command used is :-

C:\Users\Lekhana Ginjupalli\Documents>attrib +h +r +s /s /d secure_lab

This PC > Documents		
ai_project	cyber_lab	lab1
lekhana	MATLAB	NetBeansProjects
phani	root	web tech

To retrieve back that file,command used is :-

C:\Users\Lekhana Ginjupalli\Documents>attrib -h -r -s /s /d secure_lab

This PC > Documents		
ai_project	cyber_lab	lab1
lekhana	MATLAB	NetBeansProjects
phani	root	web tech
secure_lab		