

CSE-2010

Secure Coding(L23 + L24)

Lab - 4

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Intermediate

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\harib>schtasks /Create /tn "Executer" /sc MINUTE /mo 5 /tr "C:\Windows\System32\calc.exe"  
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

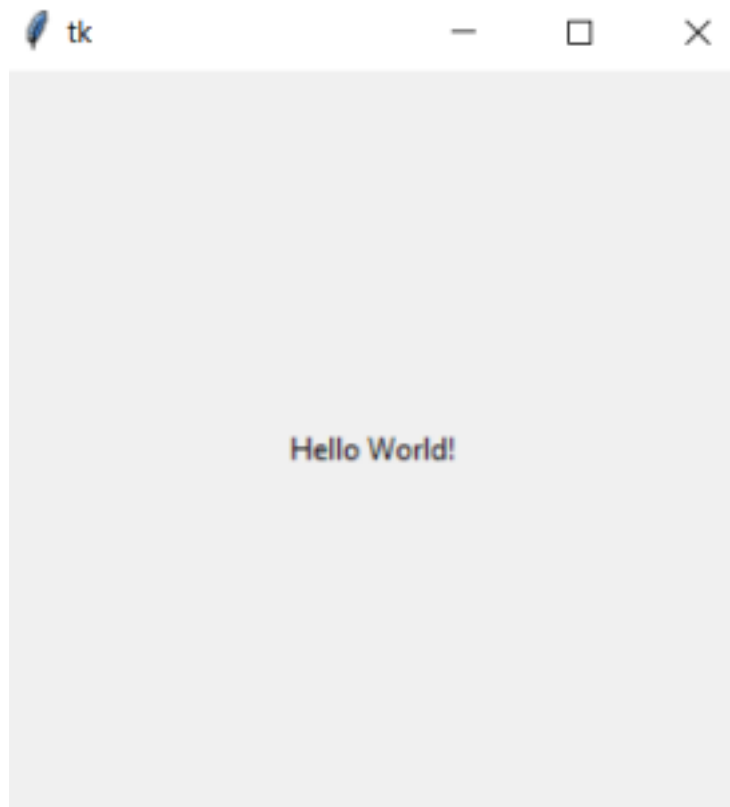
```
C:\Users\harib>SCHEDTASKS /CREATE /SC DAILY /TN "Executer2" /TR "C:\Windows\System32\notepad.exe" /ST 05:00 /ET 05:40  
SUCCESS: The scheduled task "Executer2" has successfully been created.
```

Mid-level

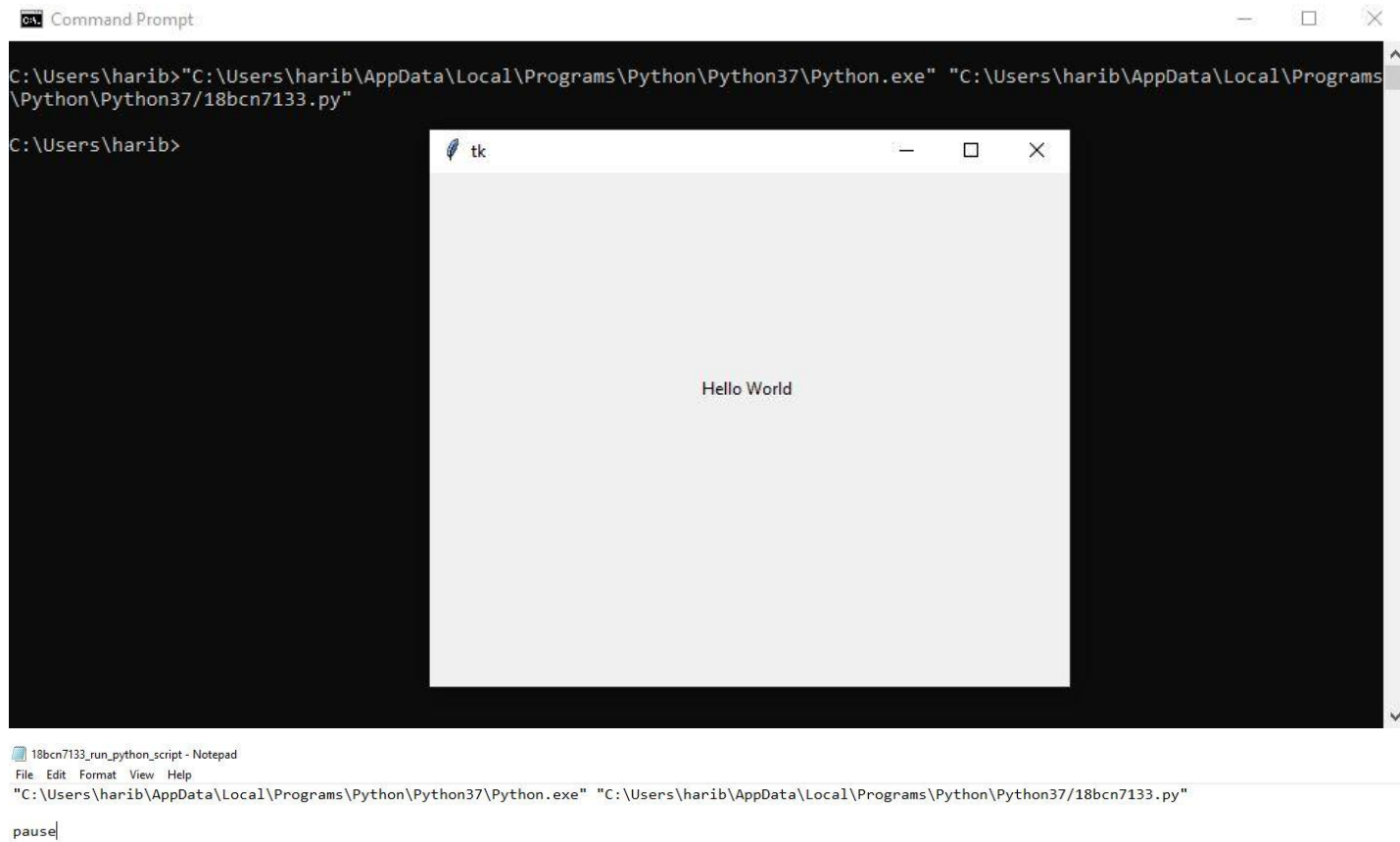
Write a python script to print hello world.



```
18bcn7133.py - C:/Users/harib/AppData/Local/Programs/Python/Python37/18bcn7133.py (3....  
File Edit Format Run Options Window Help  
import tkinter as tk  
  
root=tk.Tk()  
  
canvas1=tk.Canvas(root,width=300,height=300)  
canvas1.pack()  
  
labell=tk.Label(root,text='Hello World')  
canvas1.create_window(150,150>window=labell)  
  
root.mainloop
```



Convert the script into executable



The image shows a Windows desktop environment. In the foreground, a Command Prompt window is open, displaying the command to run a Python script. The command is: `C:\Users\harib>"C:\Users\harib\AppData\Local\Programs\Python\Python37\Python.exe" "C:\Users\harib\AppData\Local\Programs\Python\Python37\18bcn7133.py"`. Below the command, the prompt `C:\Users\harib>` is visible. Overlaid on the Command Prompt is a small Tkinter window titled `tk` with a light gray background and the text `Hello World` centered in it. Below the Command Prompt, a Notepad window is open, showing the same command as the Command Prompt. The Notepad window has a menu bar with `File`, `Edit`, `Format`, `View`, and `Help`. The text in the Notepad window is: `"C:\Users\harib\AppData\Local\Programs\Python\Python37\Python.exe" "C:\Users\harib\AppData\Local\Programs\Python\Python37\18bcn7133.py"`. At the bottom of the Notepad window, the word `pause` is entered.

```
C:\Users\harib>"C:\Users\harib\AppData\Local\Programs\Python\Python37\Python.exe" "C:\Users\harib\AppData\Local\Programs\Python\Python37\18bcn7133.py"

C:\Users\harib>
```

tk

Hello World

18bcn7133_run_python_script - Notepad

File Edit Format View Help

"C:\Users\harib\AppData\Local\Programs\Python\Python37\Python.exe" "C:\Users\harib\AppData\Local\Programs\Python\Python37\18bcn7133.py"

pause

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

```
C:\Users\harib> C:\Users\harib\AppData\Local\Programs\Python\Python37\python.exe C:\Users\harib\AppData\Local\Programs\Python\Python37\18BCN7133.py  
C:\Users\harib>SCHTASKS /CREATE /SC MONTHLY /MO first /D MON /TN "Python execution" /TR "C:\Users\harib\AppData\Local\Programs\Python\Python37\18BCN7133.py"  
SUCCESS: The scheduled task "Python execution" has successfully been created.
```

Advanced

Schedule a task named "Logger" to log your internet explorer activity to a separate text file.

```
C:\Users\harib>SCHTASKS /CREATE /TN "Logger" /TR "C:\Program Files\Internet Explorer\iexplore.exe  
" \C:\log_data\today.xml"
```

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



Create a Basic Task

Create a Basic Task

Trigger

Action

Finish

Use this wizard to quickly schedule a common task. For more advanced options or settings such as multiple task actions or triggers, use the Create Task command in the Actions pane.

Name:

Description:

< Back

Next >

Cancel


Create Basic Task Wizard



Daily

Create a Basic Task

Trigger

Start: 06-Mar-21  12:49:38 PM  ☐ Synchronize across time zones

Daily

Recur every: 1 days

Action

Finish

< Back

Next >

Cancel

Create Basic Task Wizard



Action

Create a Basic Task

Trigger

Daily

Action

Finish

What action do you want the task to perform?

- ☒ Start a program
- ☐ Send an e-mail (deprecated)
- ☐ Display a message (deprecated)

< Back

Next >

Cancel

Attrib command

```
C:\Users\harib>  
C:\Users\harib>attrib +h +s +r /S /D C:\18bcn7133  
^C  
C:\Users\harib>attrib -h -s -r /S /D C:\18bcn7133
```

Powercfg

powercfg /energy


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

Energy efficiency problems were found.

8 Errors
29 Warnings
63 Informational

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

C:\WINDOWS\system32>
```

Powercfg /lastwake

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

C:\WINDOWS\system32>
```

powercfg /hibernate on

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

C:\WINDOWS\system32>
```

powercfg /hibernate off

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

powercfg /a

```
C:\WINDOWS\system32>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.  
  
C:\WINDOWS\system32>
```

- powercfg /devicequery s1_supported

```
C:\WINDOWS\system32>powercfg /devicequery s1_supported
Intel(R) Dynamic Application Loader Host Interface
Root Print Queue
Volume Manager
Realtek Bluetooth 4.2 Adapter
WAN Miniport (PPPOE)
Microphone (Realtek High Definition Audio)
Microsoft Basic Display Driver
Synaptics Service binaries
TAP-Windows Adapter V9
UMBus Enumerator
VMware Virtual Ethernet Adapter for VMnet1
VMware Virtual Ethernet Adapter for VMnet8
WAN Miniport (PPTP)
Microsoft Hyper-V Virtualization Infrastructure Driver
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft iSCSI Initiator
Microsoft Print to PDF
Microsoft Storage Spaces Controller
Microsoft Bluetooth Enumerator
HP Radio Manager Device
Microsoft Kernel Debug Network Adapter
UMBus Enumerator (001)
Bluetooth Device (RFCOMM Protocol TDI)
Bluetooth Device (Personal Area Network)
Speaker/Headphone (Realtek High Definition Audio) (001)
UMBus Root Bus Enumerator
Charge Arbitration Driver
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Intel(R) iCLS Client
OneNote for Windows 10
Microsoft Basic Render Driver
Remote Desktop Camera Bus
UMBus Enumerator (002)
WAN Miniport (SSTP)
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
Generic software component
Microsoft XPS Document Writer
VMware VMCI Host Device
Remote Desktop USB Hub
NDIS Virtual Network Adapter Enumerator
USB Root Hub (USB 3.0)
```

```
VMware VMCI Host Device
Remote Desktop USB Hub
NDIS Virtual Network Adapter Enumerator
USB Root Hub (USB 3.0)
Fax
Citrix Indirect Display Adapter
Microsoft System Management BIOS Driver
Generic PnP Monitor
Plug and Play Software Device Enumerator
Citrix Virtual Bus Enumerator
Microsoft Bluetooth LE Enumerator
Remote Desktop Device Redirector Bus
WAN Miniport (IPv6)
WAN Miniport (L2TP)
```

Write a script to perform the following jobs

To lock your PC (Win + L)

*18bcn7133_clearrb - Notepad

File Edit Format View Help

```
PowerShell.exe -NoProfile -Command Clear-RecycleBin -confirm:$false
```

To clear your recycle bin

*18bcn7133_lockscreen - Notepad

File Edit Format View Help

```
Rundll32.exe user32.dll,LockWorkStation
```