

CSE-2010

Secure Coding(L23 + L24)

Lab - 4

Name :- MD Shafiq Ahmed

Reg no :- 18BCN7122

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\Shafiq Ahmed>schtasks /Create /tn "Executer" /sc MINUTE /mo 5 /tr "C:\Windows\System32\calc.exe"
SUCCESS: The scheduled task "Executer" has successfully been created.

C:\Users\Shafiq Ahmed>
```

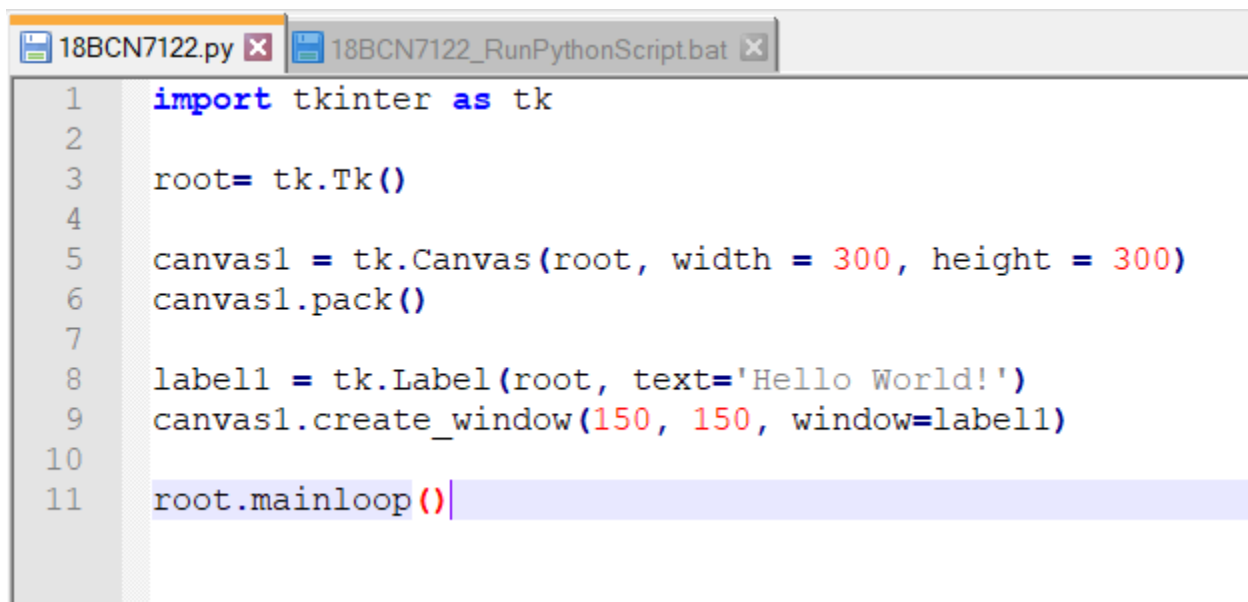
Schedule a task named "Executer2" to run notepad starting at 5:00PM and automatically terminating at 5:40PM hours every day

```
C:\Users\Shafiq Ahmed>SCHTASKS /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.

C:\Users\Shafiq Ahmed>
```

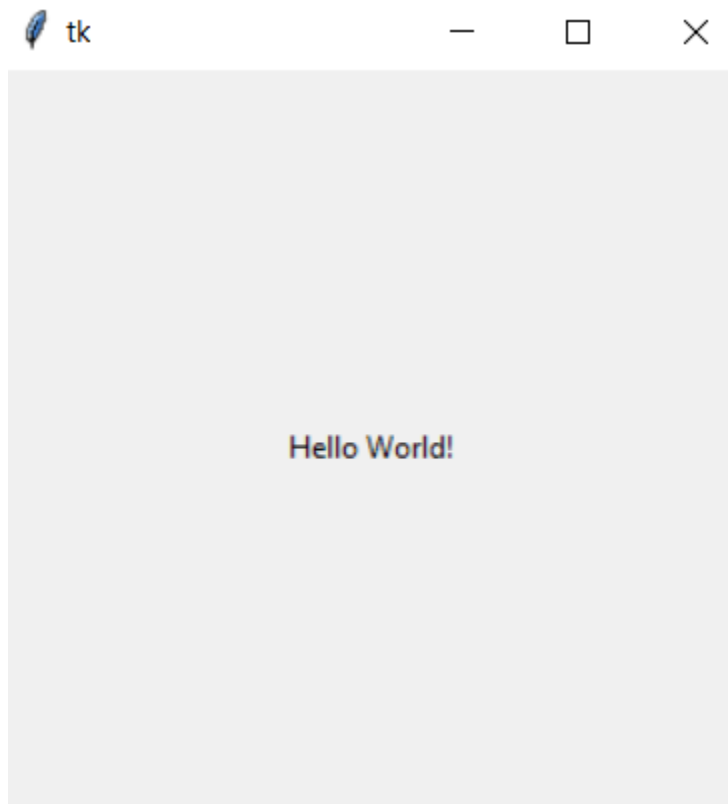
Mid-level

Write a python script to print hello world.



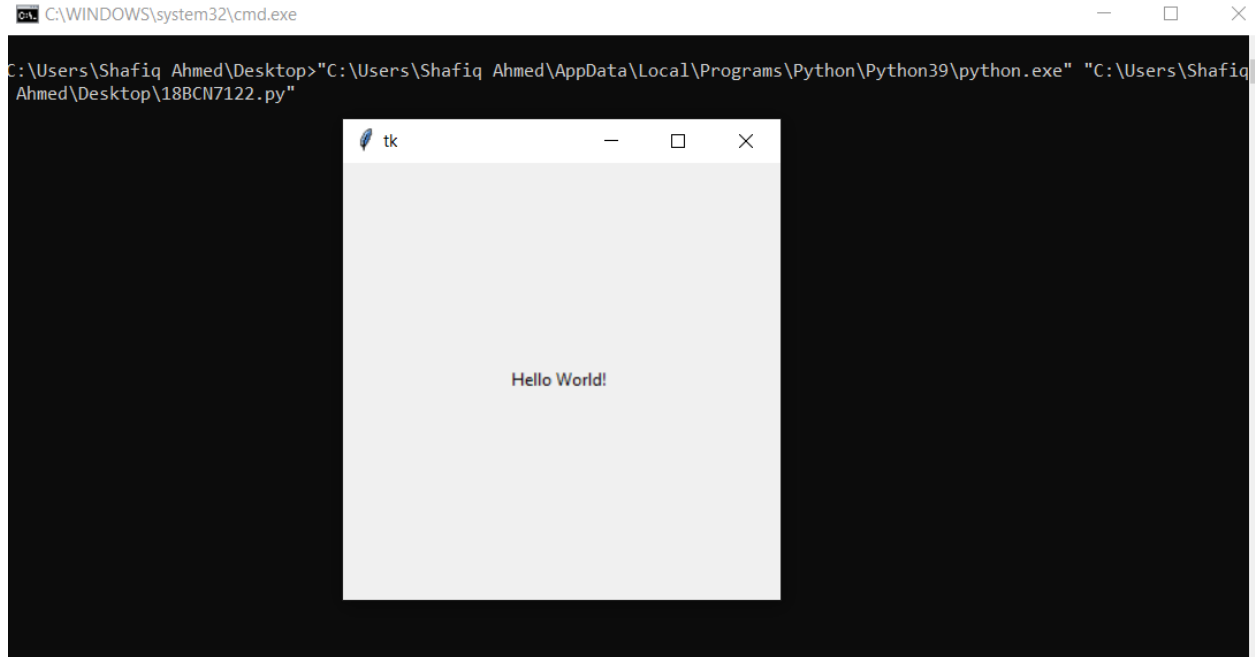
The screenshot shows a Windows file explorer window with two tabs: '18BCN7122.py' and '18BCN7122_RunPythonScript.bat'. The '18BCN7122.py' tab is active, displaying a Python script that uses the Tkinter library to create a window with the text 'Hello World!'. The script is as follows:

```
1  import tkinter as tk
2
3  root= tk.Tk()
4
5  canvas1 = tk.Canvas(root, width = 300, height = 300)
6  canvas1.pack()
7
8  label1 = tk.Label(root, text='Hello World!')
9  canvas1.create_window(150, 150, window=label1)
10
11 root.mainloop()
```



Convert the script into executable

```
18BCN7122.py x 18BCN7122_RunPythonScript.bat x
1 "C:\Users\Shafiq Ahmed\AppData\Local\Programs\Python\Python39\python.exe" "C:\Users\Shafiq Ahmed\Desktop\18BCN7122.py"
2 pause
```



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

```
C:\Users\Shafiq_Ahmed>SCHTASKS /Create /SC MONTHLY /MO first /D MON /TN "Python execution" /TR "C:\Users\Shafiq_Ahmed\Desktop\18BCN7122.py"
SUCCESS: The scheduled task "Python execution" has successfully been created.

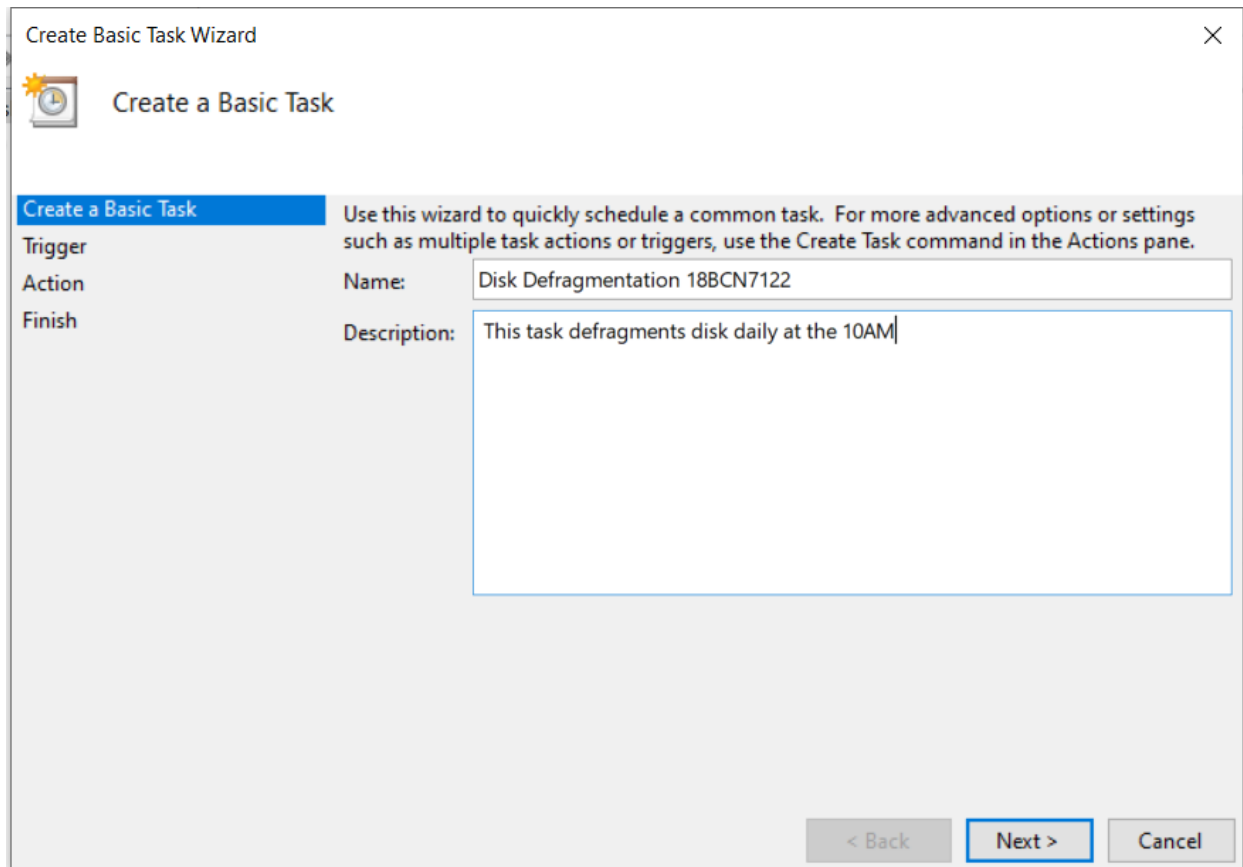
C:\Users\Shafiq_Ahmed>
```

Advanced

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

```
C:\Users\Shafiq Ahmed>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 Basic Task Wizard

Create a Basic Task

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.

Create a Basic Task

Trigger

Action


Finish

Name: Disk Defragmentation 18BCN7122

Description: This task defragments disk daily at the 10AM

< Back Next > Cancel

Create Basic Task Wizard

 Task Trigger

Create a Basic Task

Trigger

Action

Finish

When do you want the task to start?

☒ Daily

☐ Weekly

☐ Monthly

☐ One time


☐ When the computer starts

☐ When I log on

☐ When a specific event is logged

< Back Next > Cancel

Create Basic Task Wizard

 Daily

Create a Basic Task

Trigger

Daily

Action

Finish

Start: 06-03-2021 10:26:55 ☐ Synchronize across time zones

Recur every: 1 days

< Back Next > Cancel

Create a Basic Task

Trigger	Program/script:	
Daily	C:\Windows\System32\Defrag.exe	Browse...
Action		
Start a Program	Add arguments (optional):	
Finish	Start in (optional):	

Attrib command

```
C:\Users\Shafiq Ahmed>attrib +h +s +r /S /D D:\Google  
C:\Users\Shafiq Ahmed>attrib -h -s -r /S /D D:\Google  
C:\Users\Shafiq Ahmed>
```

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
Generic software component
Root Print Queue
Volume Manager
Intel(R) Display Audio
WAN Miniport (PPPOE)
Fax
HID Keyboard Device
Microsoft Basic Display Driver
HID-compliant vendor-defined device
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
VirtualBox Host-Only Ethernet Adapter
Kaspersky Security Data Escort Adapter
WAN Miniport (PPTP)
Intel(R) iCLS Client
Microsoft Hyper-V Virtualization Infrastructure Driver
USB Root Hub (USB 3.0)
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Microsoft Storage Spaces Controller
USB Input Device
Microsoft Kernel Debug Network Adapter
ELAN Touchpad Component
Generic software component (001)
Intel(R) Dynamic Application Loader Host Interface
Microphone Array (Realtek(R) Audio)
Generic PnP Monitor
Microsoft XPS Document Writer
Intel(R) Management and Security Application Local Management
UMBus Root Bus Enumerator
Charge Arbitration Driver
HP Audio Hardware Support Application
ACPI x64-based PC
Sound Research Audio Effects Component
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Realtek Audio Universal Service
USB Input Device (001)
Intel(R) Wireless Bluetooth(R)
Microsoft Basic Render Driver
Intel(R) Graphics Command Center
Realtek Speech Preprocessing IP DLL Component
WAN Miniport (SSTP)
USB Composite Device (002)
HID-compliant system controller
```

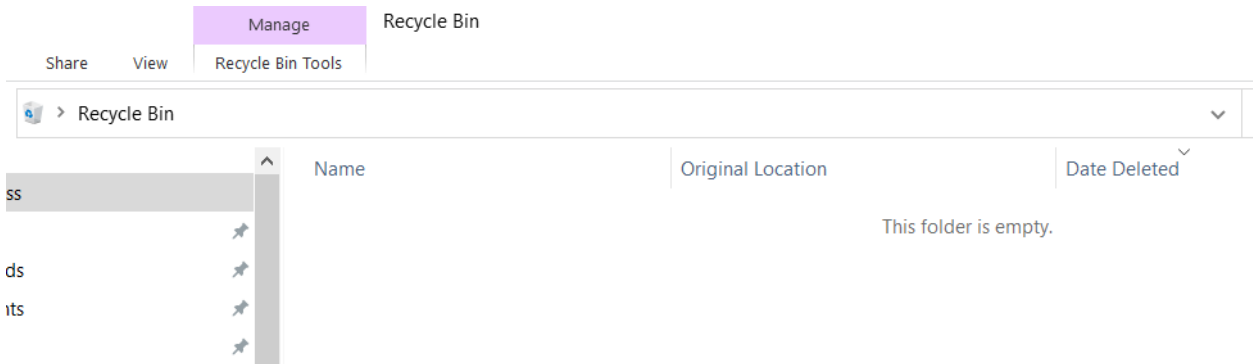
```
USB Composite Device (002)
HID-compliant system controller
HID-compliant consumer control device
Microsoft Print to PDF
USB Input Device (002)
HID-compliant mouse
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
NVHCI Enumerator
OneNote for Windows 10
Realtek Audio Effects Component
NDIS Virtual Network Adapter Enumerator
Intel(R) iCLS Client (001)
OneNote (Desktop)
Intel(R) Graphics Control Panel
Intel(R) Dynamic Application Loader Host Interface (001)
Microsoft System Management BIOS Driver
Intel(R) Management and Security Application Local Management (001)
HP Device Health Service
HP Radio Manager Device
Plug and Play Software Device Enumerator
Remote Desktop Device Redirector Bus
HID-compliant vendor-defined device (002)
WAN Miniport (IPv6)
HP Application Enabling Services
WAN Miniport (L2TP)
Speaker (Realtek(R) Audio)

C:\WINDOWS\system32>
```

Write a script to perform the following jobs

To lock your PC (Win + L)

```
18BCN7122.py x 18BCN7122_RunPythonScript.bat x 18BCN7122_ClearRB.bat x
1 PowerShell.exe -NoProfile -Command Clear-RecycleBin -Confirm:$false
```



To clear your recycle bin

```
18BCN7122.py x 18BCN7122_RunPythonScript.bat x 18BCN7122_LockScreen.bat x
1 Rundll32.exe user32.dll,LockWorkStation
```