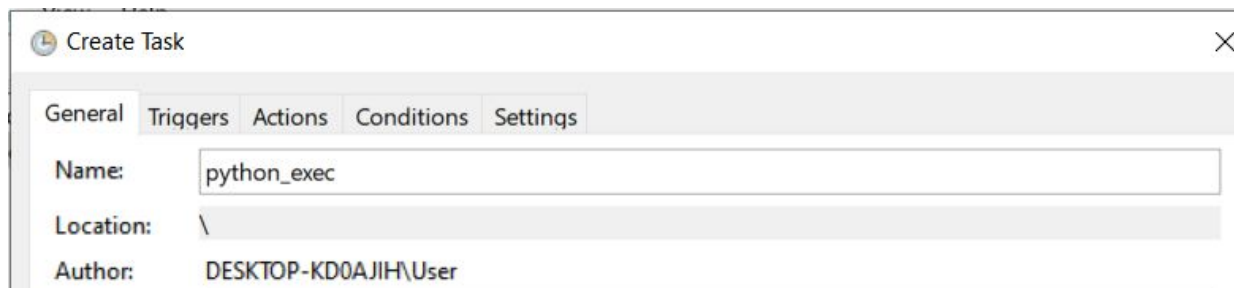


SECURE CODING LAB-4
CSE 2010
SLOT (L23+L24)

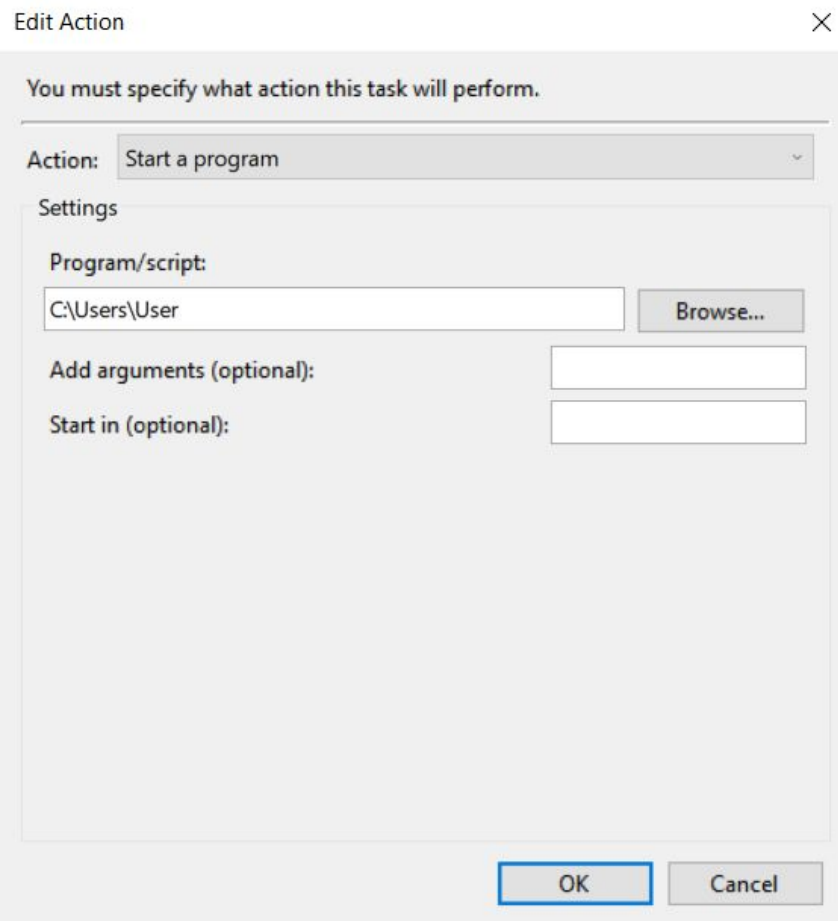
DONE BY
HEMANTH KUMAR R
18BCN7028

Mid-level

- Write a python script to print hello world.
- Convert the script into executable (use pyinstaller or py2exe – any of your choice).
- Schedule a task named “Python execution” to run the above executable on the first Monday of every month.



The screenshot shows the 'Create Task' dialog box in Windows Task Scheduler. It has a title bar with a clock icon and the text 'Create Task'. Below the title bar are five tabs: 'General', 'Triggers', 'Actions', 'Conditions', and 'Settings'. The 'General' tab is selected. It contains three fields: 'Name:' with the value 'python_exec', 'Location:' with the value '\', and 'Author:' with the value 'DESKTOP-KD0AJIH\User'.



The screenshot shows the 'Edit Action' dialog box in Windows Task Scheduler. It has a title bar with the text 'Edit Action'. Below the title bar is a message: 'You must specify what action this task will perform.' Below this message is a dropdown menu labeled 'Action:' with the value 'Start a program'. Below the dropdown menu is a section labeled 'Settings'. It contains three fields: 'Program/script:' with the value 'C:\Users\User', 'Add arguments (optional):' with an empty text box, and 'Start in (optional):' with an empty text box. To the right of the 'Program/script:' field is a 'Browse...' button. At the bottom of the dialog box are two buttons: 'OK' and 'Cancel'.

Begin the task: On a schedule

Settings

☒ One time
☐ Daily
☐ Weekly
☐ Monthly

Start: 06-03-2021 11:15:03 ☐ Synchronize across time zones

Advanced settings

☐ Delay task for up to (random delay): 1 hour

☐ Repeat task every: 1 hour for a duration of: 1 day
☐ Stop all running tasks at end of repetition duration

☐ Stop task if it runs longer than: 3 days

☐ Expire: 06-03-2022 11:15:07 ☐ Synchronize across time zones

☒ Enabled

OK Cancel

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

Create Task

General Triggers Actions Conditions Settings

Name:

Location: \

Author: DESKTOP-KD0AJIH\User

Description:

Security options

When running the task, use the following user account:
DESKTOP-KD0AJIH\User

☒ Run only when user is logged on

☐ Run whether user is logged on or not

☐ Do not store password. The task will only have access to local computer resources.

☐ Run with highest privileges

☐ Hidden

Configure for: Windows Vista™, Windows Server™ 2008

New Trigger

Begin the task: On a schedule

Settings

☒ One time ☐ Synchronize across time zones

☐ Daily

☐ Weekly

☐ Monthly

Advanced settings

☐ Delay task for up to (random delay): 1 hour

☒ Repeat task every: 5 minutes for a duration of: Indefinitely

☐ Stop all running tasks at end of repetition duration

☐ Stop task if it runs longer than: 3 days

☐ Expire: 06-03-2022 11:21:24 ☐ Synchronize across time zones

☒ Enabled

Create Task

General Triggers Actions Conditions Settings

Name: Executer2

Location: \

Author: DESKTOP-KD0AJIH\User

Description:

Security options

When running the task, use the following user account:

DESKTOP-KD0AJIH\User Change User or Group...

☒ Run only when user is logged on

☐ Run whether user is logged on or not

☐ Do not store password. The task will only have access to local computer resources.

☐ Run with highest privileges

☐ Hidden

Configure for: Windows Vista™, Windows Server™ 2008

OK Cancel

New Trigger

Begin the task: On a schedule

Settings

☐ One time

☒ Daily

☐ Weekly

☐ Monthly

Start: 06-03-2021 17:00:00 ☐ Synchronize across time zones

Recur every: 1 days

Advanced settings

☐ Delay task for up to (random delay): 1 hour

☐ Repeat task every: 10 minutes for a duration of: 40 minutes

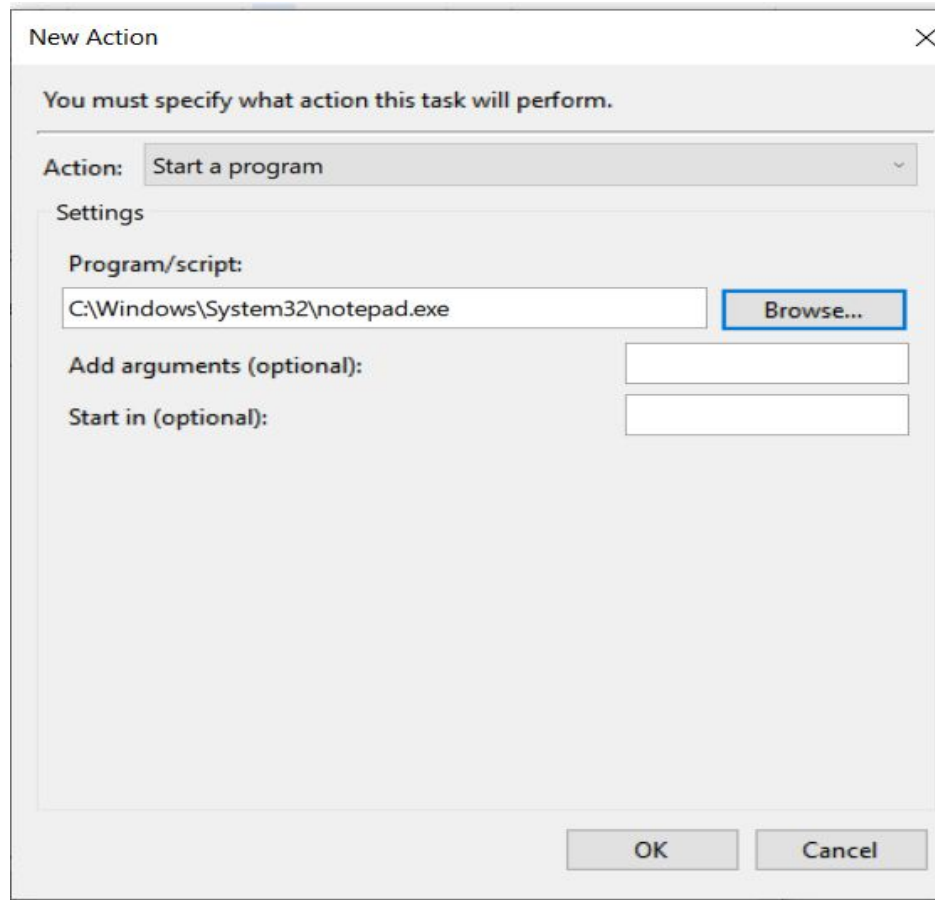
☐ Stop all running tasks at end of repetition duration

☒ Stop task if it runs longer than: 40 minutes

☐ Expire: 06-03-2022 11:18:09 ☐ Synchronize across time zones

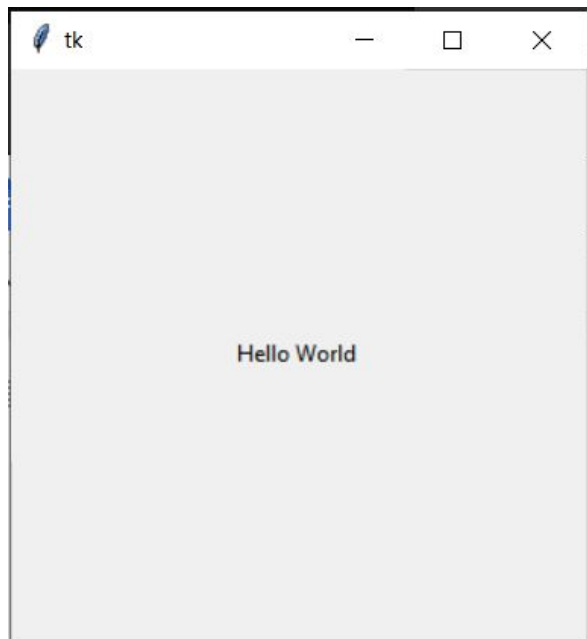
☒ Enabled

OK Cancel



Print Hello world using python script

```
>>> import tkinter as tk
>>> root=tk.Tk()
>>> canvas1=tk.Canvas(root,width=300,height=300)
>>> canvas1.pack()
>>> label=tk.Label(root,text='Hello World')
>>> canvas1.create_window(150,150>window=label)
1
```



Scheduling a task using “Task Scheduler ” to defragment my 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

Description: defragment local disk daily at 10AM

< Back Next > Cancel

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



Daily

Create a Basic Task

Trigger

Daily

Action

Finish

Start: 06-03-2021 11:28:46 ☐ Synchronize across time zones

Recur every: 1 days

< Back

Next >

Cancel



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)



Start a Program

Create a Basic Task

Trigger

Daily

Action

Start a Program

Finish

Program/script:

C:\Windows\System32\Defrag.exe

Browse...

Add arguments (optional):

Start in (optional):

Attrib commands

```
C:\Users\User\Desktop>attrib +h +s +r /S /D F:\sclab  
  
C:\Users\User\Desktop>attrib -h -s -r /S /D F:\sclab  
  
C:\Users\User\Desktop>
```

Powercfg /energy

```
Microsoft Windows [Version 10.0.19042.804]  
(c) 2020 Microsoft Corporation. All rights reserved.  
  
C:\WINDOWS\system32>powercfg /energy  
Enabling tracing for 60 seconds...  
Observing system behavior...  
Analyzing trace data...  
Analysis complete.  
  
Energy efficiency problems were found.  
  
5 Errors  
16 Warnings  
53 Informational  
  
See C:\WINDOWS\system32\energy-report.html for more details.  
  
C:\WINDOWS\system32>
```

```
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 off
```

```
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

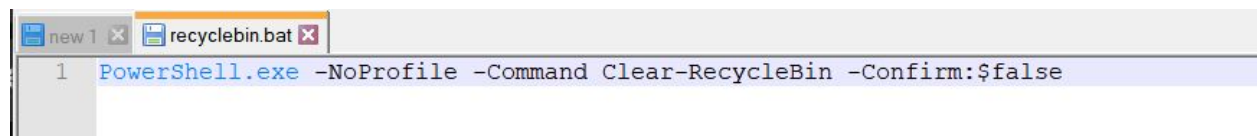
Hibernation is not available.

Fast Startup

Hibernation is not available.

```
C:\WINDOWS\system32>powercfg /devicequery s1_supported
Microsoft Bluetooth LE Enumerator
Root Print Queue
Intel(R) iCLS Client
Volume Manager
Fax
WAN Miniport (PPPOE)
Microsoft Basic Display Driver
Intel(R) Dynamic Application Loader Host Interface
USB Root Hub (USB 3.0)
Microsoft Wi-Fi Direct Virtual Adapter
Microsoft Wi-Fi Direct Virtual Adapter #2
WAN Miniport (PPTP)
Speakers (Realtek High Definition Audio)
Microsoft Hyper-V Virtualization Infrastructure Driver
WAN Miniport (IKEv2)
Composite Bus Enumerator
Microsoft Virtual Drive Enumerator
Generic software component
Microsoft Storage Spaces Controller
Microsoft Kernel Debug Network Adapter
Headset (Rockerz 255 Pro Hands-Free AG Audio)
OneNote for Windows 10
Microsoft Bluetooth Enumerator
Microphone (Realtek High Definition Audio)
Microsoft XPS Document Writer
Bluetooth Device (RFCOMM Protocol TDI)
Rockerz 255 Pro Hands-Free AG Audio
Bluetooth Device (Personal Area Network)
UMBus Root Bus Enumerator
Charge Arbitration Driver
ACPI x64-based PC
WAN Miniport (Network Monitor)
WAN Miniport (IP)
Microsoft Print to PDF
Generic PnP Monitor (001)
Microsoft Basic Render Driver
WAN Miniport (SSTP)
Headset (Rockerz 255 Pro Hands-Free AG Audio) (001)
Intel(R) iCLS Client (001)
AMD-UWP Version Control
Intel(R) Dynamic Application Loader Host Interface (001)
Generic software component (001)
```

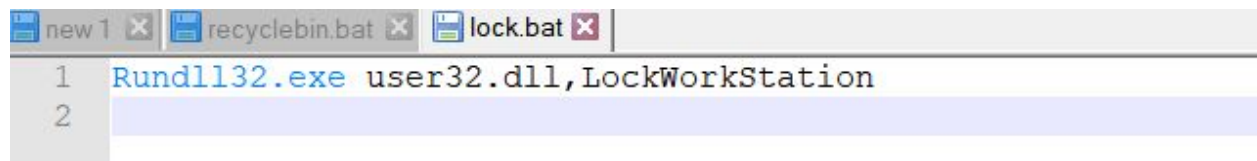
Script for Recycle the bin



The screenshot shows a Notepad window with two tabs: 'new 1' and 'recyclebin.bat'. The 'recyclebin.bat' tab is active. The text in the editor is a single line of PowerShell command: `PowerShell.exe -NoProfile -Command Clear-RecycleBin -Confirm:$false`. The line is numbered '1' on the left margin.

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

Script for lock the screen



The screenshot shows a Notepad window with three tabs: 'new 1', 'recyclebin.bat', and 'lock.bat'. The 'lock.bat' tab is active. The text in the editor is a single line of command: `Rundll32.exe user32.dll,LockWorkStation`. The line is numbered '1' on the left margin. There is a second line number '2' below it, but no text is present on that line.

```
1 Rundll32.exe user32.dll,LockWorkStation
2
```