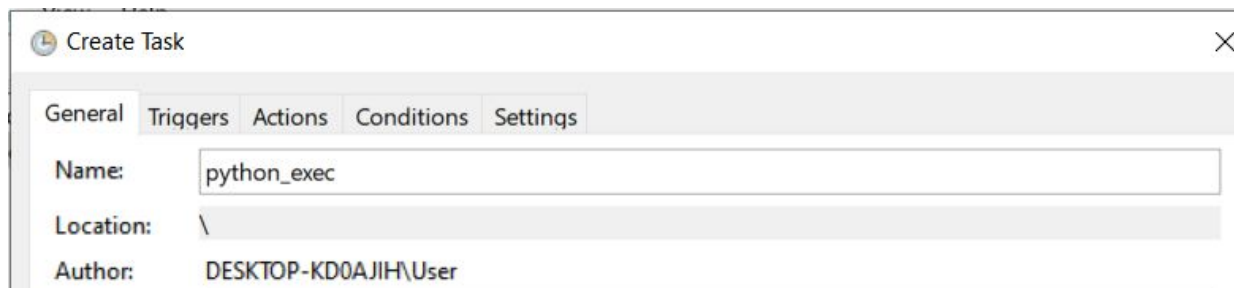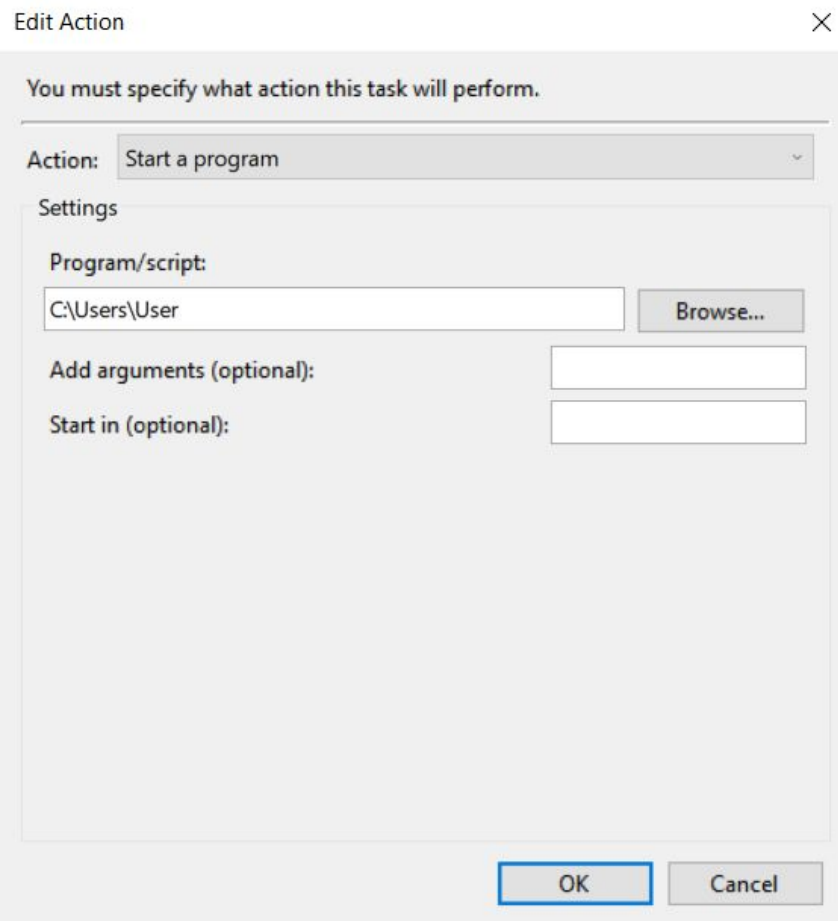# SECURE CODING LAB-4
CSE 2010
SLOT (L23+L24)

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.

🕐 **Create Task**   ✕

| General | Triggers | Actions | Conditions | Settings |

Name: python_exec

Location: \

Author: DESKTOP-KD0AJIH\User

Edit Action   ✕

You must specify what action this task will perform.

Action: Start a program

Settings

Program/script:

C:\Users\User   **Browse...**

Add arguments (optional):

Start in (optional):

OK   **Cancel**

New Trigger

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: Executer

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   Start: 06-03-2021 ▾ 11:21:24 ▴▾   ☐ 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

[OK] [Cancel]

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

◉ Daily

○ Weekly   Recur every: 1   days

○ Monthly

Advanced settings

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

☐ Repeat task every: 10 minutes   ⌄   for a duration of: 40 minutes   ⌄
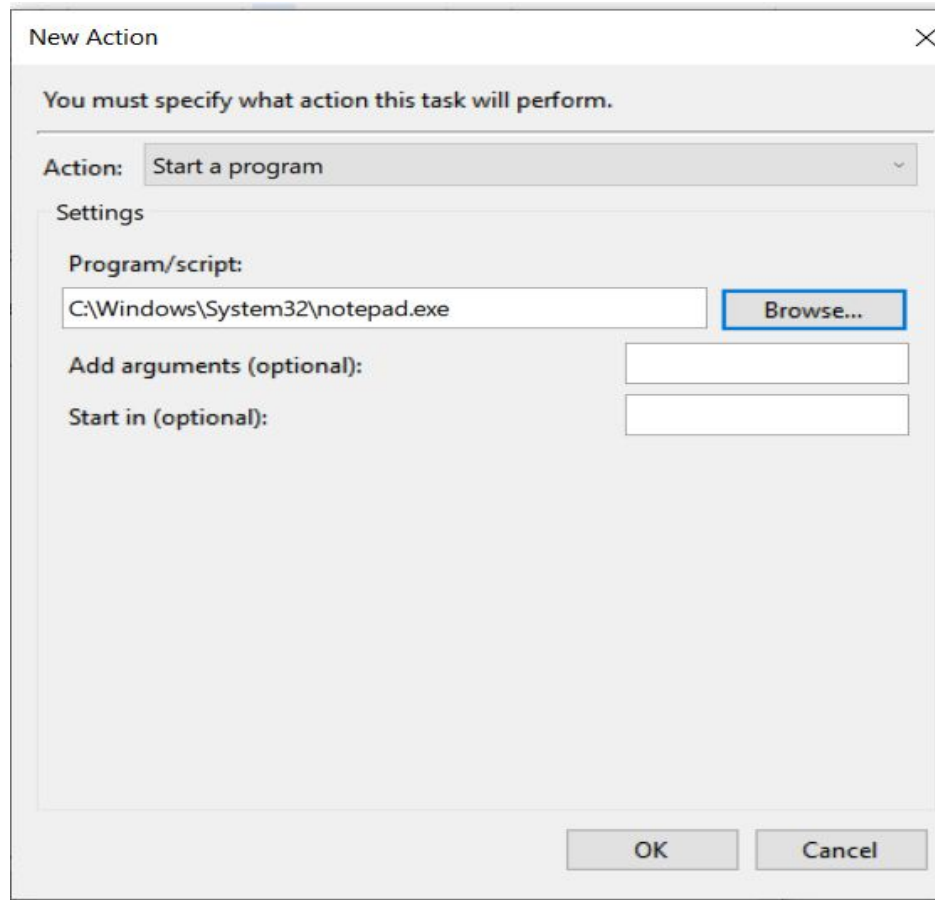
     ☐ Stop all running tasks at end of repetition duration

☑ Stop task if it runs longer than: 40 minutes   ⌄

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

☑ Enabled

[OK]   [Cancel]

New Action ✕

You must specify what action this task will perform.

Action: Start a program

Settings

Program/script:

C:\Windows\System32\notepad.exe   Browse...

Add arguments (optional):

Start in (optional):
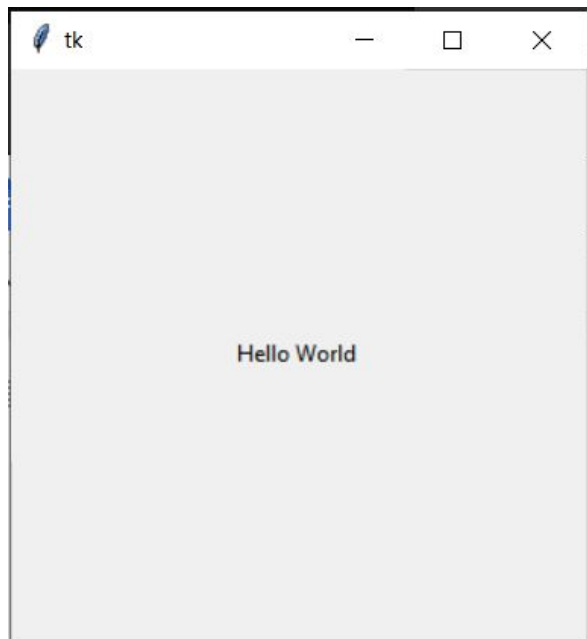
OK   Cancel

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 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.
```
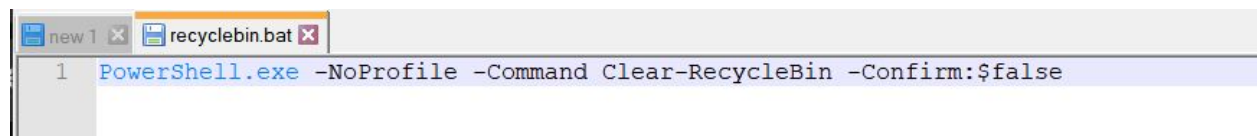
```
C:\WINDOWS\system32>powercfg /devicequery s1_supported
Microsoft Bluetooth LE Enumerator
Root Print Queue
Intel(R) iCLS Client
Volume Manager
Fax
WAN Miniport (PPPOE)
Microsoft Basic Display Driver
Intel(R) Dynamic Application Loader Host Interface
USB Root Hub (USB 3.0)
Microsoft Wi-Fi Direct Virtual 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)
```
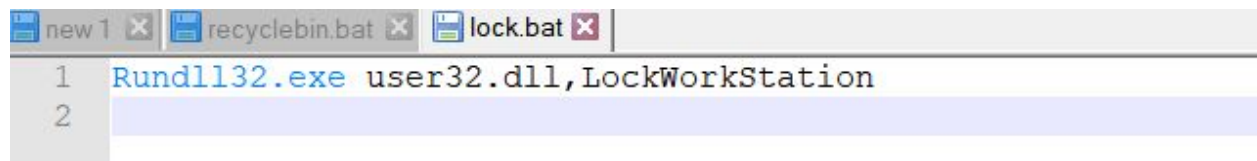
Script for Recycle the bin

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

Script for lock the screen

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