Experiment No.10
Mini Project

Aim: - To implement hotel Management System as Mini Project In Python.

Learning Objective: - Students are intended to execute and demonstrate Mini Project.

Tools/Requirements: - Python IDLE.

Theory: - Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter outputs the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.

Tkinter is the standard GUI library for Python. Python when combined with Tkinter provides a fast and easy way to create GUI applications. Tkinter provides a powerful object-oriented interface to the Tk GUI toolkit.

Creating a GUI application using Tkinter is an easy task. All you need to do is perform the following steps –

- Import the *Tkinter* module.

- Create the GUI application main window.

- Add one or more of the above-mentioned widgets to the GUI application.

- Enter the main event loop to take action against each event triggered by the user.

Hotel Management System is part of 5 program made in Python using GUI and database and a collective part of these 5 programs .

Programs are:-
1) HMS
2) Checkoutgui
3) Getinfoui
4) Listui
5) Main
6) Checkingui_and _program

Learning Outcome :- Student will be able to attain output for Mini Project.

Course Outcome :- Develop a project with help of knowledge gained through the syllabus.

Conclusion :- We have implemented and understood concept of the Dinig Philosopher Problem In C using Semaphore.

Source Code:-

```python
import os
from subprocess import call
import sys
try:
from Tkinter import *
except ImportError:
from tkinter import *
try:
import ttk
py3 = False
except ImportError:
import tkinter.ttk as ttk
py3 = True
def click_checkinn():
call(["python", "checkin_gui_and_program.py"])
def click_list():
call(["python", "listgui.py"])
def click_checkout():
call(["python", "checkoutgui.py"])
def click_getinfo():
call(["python","getinfoui.py"])


class HOTEL_MANAGEMENT:
def __init__(self):
root = Tk()
'''This class configures and populates the toplevel window.
top is the toplevel containing window.'''
_bgcolor = '#d9d9d9'  # X11 color: 'gray85'
_fgcolor = '#000000'  # X11 color: 'black'
_compcolor = '#ffffff' # X11 color: 'white'
_ana1color = '#ffffff' # X11 color: 'white'
_ana2color = '#ffffff' # X11 color: 'white'
font14 = "-family {Segoe UI} -size 15 -weight bold -slant "  \
"roman -underline 0 -overstrike 0"
font16 = "-family {Swis721 BlkCn BT} -size 40 -weight bold "  \
"-slant roman -underline 0 -overstrike 0"
font9 = "-family {Segoe UI} -size 9 -weight normal -slant "  \
"roman -underline 0 -overstrike 0"

root.geometry("963x749+540+110")
root.title("HOTEL MANAGEMENT")
root.configure(background="#d9d9d9")
root.configure(highlightbackground="#d9d9d9")
root.configure(highlightcolor="black")

self.menubar = Menu(root,font=font9,bg=_bgcolor,fg=_fgcolor)
root.configure(menu = self.menubar)

self.Frame1 = Frame(root)
```

```python
self.Frame1.place(relx=0.02, rely=0.03, relheight=0.94, relwidth=0.96)
self.Frame1.configure(relief=GROOVE)
self.Frame1.configure(borderwidth="2")
self.Frame1.configure(relief=GROOVE)
self.Frame1.configure(background="#d9d9d9")
self.Frame1.configure(highlightbackground="#d9d9d9")
self.Frame1.configure(highlightcolor="black")
self.Frame1.configure(width=925)

self.Message6 = Message(self.Frame1)
self.Message6.place(relx=0.09, rely=0.01, relheight=0.15, relwidth=0.86)
self.Message6.configure(background="#d9d9d9")
self.Message6.configure(font=font16)
self.Message6.configure(foreground="#000000")
self.Message6.configure(highlightbackground="#d9d9d9")
self.Message6.configure(highlightcolor="black")
self.Message6.configure(text='''WELCOME''')
self.Message6.configure(width=791)

self.Button2 = Button(self.Frame1)
self.Button2.place(relx=0.18, rely=0.17, height=103, width=566)
self.Button2.configure(activebackground="#d9d9d9")
self.Button2.configure(activeforeground="#000000")
self.Button2.configure(background="#d9d9d9")
self.Button2.configure(disabledforeground="#bfbfbf")
self.Button2.configure(font=font14)
self.Button2.configure(foreground="#000000")
self.Button2.configure(highlightbackground="#d9d9d9")
self.Button2.configure(highlightcolor="black")
self.Button2.configure(pady="0")
self.Button2.configure(text='''1.CHECK INN''')
self.Button2.configure(width=566)
self.Button2.configure(command=click_checkinn)

self.Button3 = Button(self.Frame1)
self.Button3.place(relx=0.18, rely=0.33, height=93, width=566)
self.Button3.configure(activebackground="#d9d9d9")
self.Button3.configure(activeforeground="#000000")
self.Button3.configure(background="#d9d9d9")
self.Button3.configure(disabledforeground="#bfbfbf")
self.Button3.configure(font=font14)
self.Button3.configure(foreground="#000000")
self.Button3.configure(highlightbackground="#d9d9d9")
self.Button3.configure(highlightcolor="black")
self.Button3.configure(pady="0")
self.Button3.configure(text='''2.SHOW GUEST LIST''')
self.Button3.configure(width=566)
self.Button3.configure(command=click_list)

self.Button4 = Button(self.Frame1)
self.Button4.place(relx=0.18, rely=0.47, height=93, width=566)
```

```python
self.Button4.configure(activebackground="#d9d9d9")
self.Button4.configure(activeforeground="#000000")
self.Button4.configure(background="#d9d9d9")
self.Button4.configure(disabledforeground="#bfbfbf")
self.Button4.configure(font=font14)
self.Button4.configure(foreground="#000000")
self.Button4.configure(highlightbackground="#d9d9d9")
self.Button4.configure(highlightcolor="black")
self.Button4.configure(pady="0")
self.Button4.configure(text='''3.CHECK OUT''')
self.Button4.configure(width=566)
self.Button4.configure(command=click_checkout)

self.Button5 = Button(self.Frame1)
self.Button5.place(relx=0.18, rely=0.61, height=103, width=566)
self.Button5.configure(activebackground="#d9d9d9")
self.Button5.configure(activeforeground="#000000")
self.Button5.configure(background="#d9d9d9")
self.Button5.configure(disabledforeground="#bfbfbf")
self.Button5.configure(font=font14)
self.Button5.configure(foreground="#000000")
self.Button5.configure(highlightbackground="#d9d9d9")
self.Button5.configure(highlightcolor="black")
self.Button5.configure(pady="0")
self.Button5.configure(text='''4.GET INFO OF ANY GUEST''')
self.Button5.configure(width=566)
self.Button5.configure(command=click_getinfo)

self.Button6 = Button(self.Frame1)
self.Button6.place(relx=0.18, rely=0.77, height=103, width=566)
self.Button6.configure(activebackground="#d9d9d9")
self.Button6.configure(activeforeground="#000000")
self.Button6.configure(background="#d9d9d9")
self.Button6.configure(disabledforeground="#bfbfbf")
self.Button6.configure(font=font14)
self.Button6.configure(foreground="#000000")
self.Button6.configure(highlightbackground="#d9d9d9")
self.Button6.configure(highlightcolor="black")
self.Button6.configure(pady="0")
self.Button6.configure(text='''5.EXIT''')
self.Button6.configure(width=566)
self.Button6.configure(command=quit)
root.mainloop()

if __name__ == '__main__':
    GUUEST=HOTEL_MANAGEMENT()
```
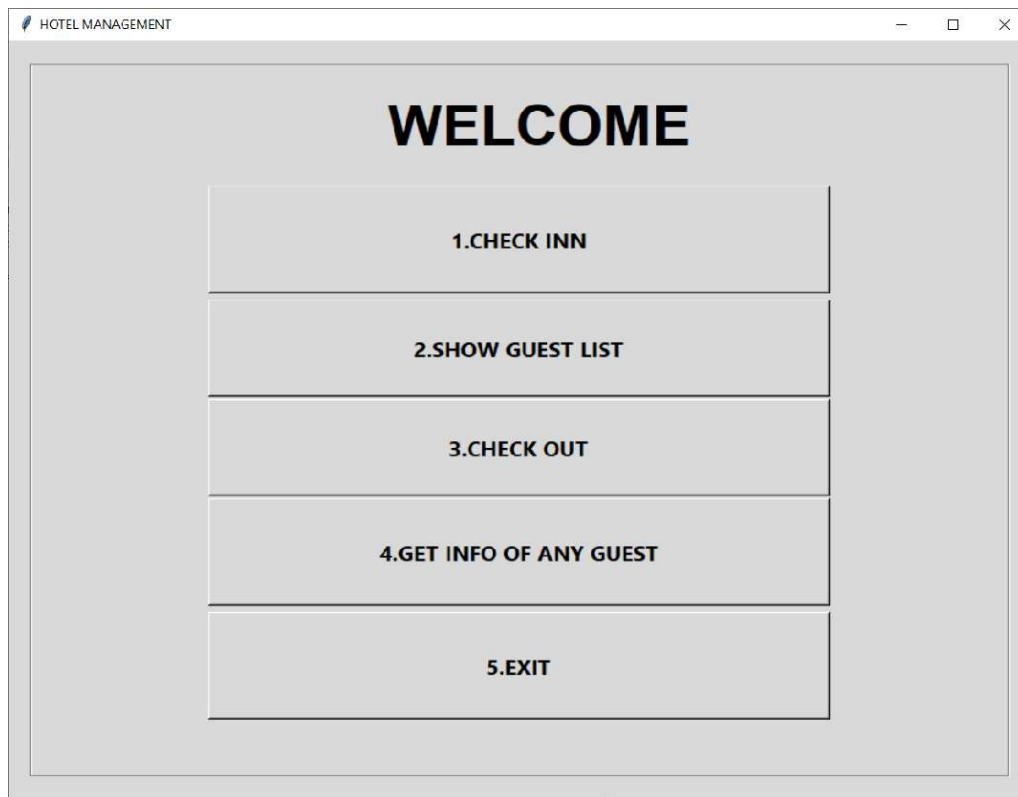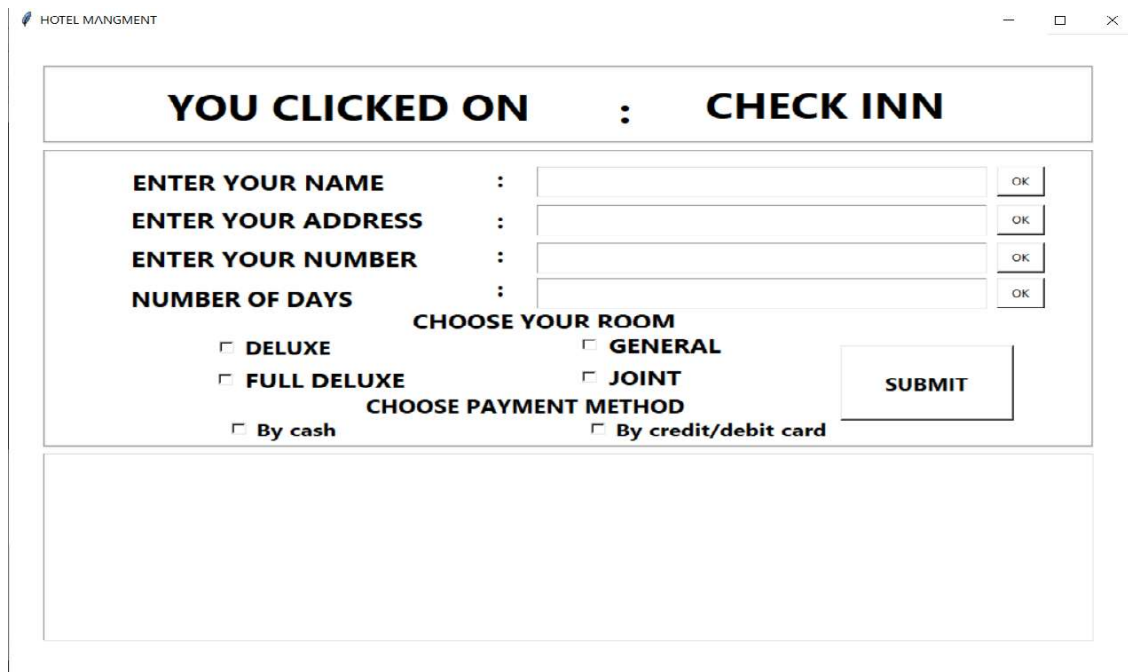
Output:-

HOTEL MANAGEMENT

ENTER THE ROOM NO.   :

CHECK OUT

HOTEL MANAGEMENT

GET INFO HERE ..!!

ENTER THE ROOM NO.   :

SUBMIT