

Homework #9

O1286121 Computer Programming Software Engineering Program, Department of Computer Engineering, School of Engineering, KMITL

Ву

68011278 Ananda Stallard

Code:

```
from tkinter import *
class KMITL Phone:
  def __init__(self):
    window = Tk()
    window.title("KMITL Phone")
    self.message = StringVar()
    frame1 = Frame(window)
    frame1.grid(row=1, column=1, pady=10)
    Label(frame1, textvariable=self.message).pack()
    frame2 = Frame(window)
    frame2.grid(row=2, column=1)
    Button(frame2, text="1", command=lambda: self.add_digit("1")).grid(row=1, column=1)
    Button(frame2, text="2", command=lambda: self.add_digit("2")).grid(row=1, column=2)
    Button(frame2, text="3", command=lambda: self.add_digit("3")).grid(row=1, column=3)
    Button(frame2, text="4", command=lambda: self.add_digit("4")).grid(row=2, column=1)
    Button(frame2, text="5", command=lambda: self.add_digit("5")).grid(row=2, column=2)
    Button(frame2, text="6", command=lambda: self.add_digit("6")).grid(row=2, column=3)
    Button(frame2, text="7", command=lambda: self.add_digit("7")).grid(row=3, column=1)
    Button(frame2, text="8", command=lambda: self.add_digit("8")).grid(row=3, column=2)
    Button(frame2, text="9", command=lambda: self.add_digit("9")).grid(row=3, column=3)
    Button(frame2, text="*", command=lambda: self.add_digit("*")).grid(row=4, column=1)
    Button(frame2, text="0", command=lambda: self.add_digit("0")).grid(row=4, column=2)
    Button(frame2, text="#", command=lambda: self.add_digit("#")).grid(row=4, column=3)
    frame3 = Frame(window)
    frame3.grid(row=3, column=1, pady=10)
    Button(frame3, text="Talk", command=self.talk).grid(row=1, column=1, padx=5)
    Button(frame3, text="<", command=self.backspace).grid(row=1, column=2, padx=5)
    window.mainloop()
  def add_digit(self, digit):
```

```
self.message.set(self.message.get() + digit)

def backspace(self):
    self.message.set(self.message.get()[:-1])

def talk(self):
    self.message.set("Dialing " + self.message.get())

KMITL_Phone()
```

Result:

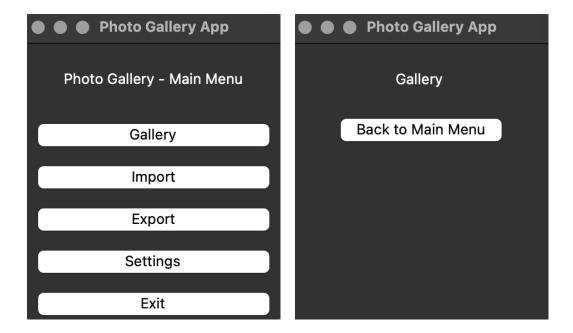


Code:

```
from tkinter import *
from tkinter import ttk
class PhotoGalleryApp:
  def __init__(self, root):
     self.root = root
     self.root.title("Photo Gallery App")
     self.container = Frame(root)
     self.container.pack()
     self.frames = {}
     for F in (MainMenu, Gallery, Import, Export, Settings):
       page_name = F.__name__
       frame = F(parent=self.container, controller=self)
       self.frames[page_name] = frame
       frame.grid(row=0, column=0, sticky="nsew")
     self.show_frame("MainMenu")
  def show_frame(self, page_name):
     frame = self.frames[page_name]
     frame.tkraise()
class MainMenu(Frame):
  def __init__(self, parent, controller):
     Frame.__init__(self, parent)
     Label(self, text="Photo Gallery - Main Menu").pack(padx = 10, pady=20)
     Button(self, text="Gallery", width=20, command=lambda: controller.show_frame("Gallery")).pack(padx = 10,
pady=5)
     Button(self, text="Import", width=20, command=lambda: controller.show_frame("Import")).pack(padx = 10,
pady=5)
```

```
Button(self, text="Export", width=20, command=lambda: controller.show_frame("Export")).pack(padx = 10,
pady=5)
     Button(self, text="Settings", width=20, command=lambda: controller.show_frame("Settings")).pack(padx =
10, pady=5)
     Button(self, text="Exit", width=20, command=controller.root.quit).pack(padx = 10, pady=5)
class Gallery(Frame):
  def __init__(self, parent, controller):
     Frame.__init__(self, parent)
     Label(self, text="Gallery").pack(padx = 10, pady=20)
     Button(self, text="Back to Main Menu", command=lambda: controller.show_frame("MainMenu")).pack()
class Import(Frame):
  def __init__(self, parent, controller):
     Frame.__init__(self, parent)
     Label(self, text="Import").pack(padx = 10, pady=20)
     Button(self, text="Back to Main Menu", command=lambda: controller.show_frame("MainMenu")).pack()
class Export(Frame):
  def __init__(self, parent, controller):
    Frame.__init__(self, parent)
     Label(self, text="Export").pack(padx = 10, pady=20)
     Button(self, text="Back to Main Menu", command=lambda: controller.show_frame("MainMenu")).pack()
class Settings(Frame):
  def __init__(self, parent, controller):
     Frame.__init__(self, parent)
     Label(self, text="Settings").pack(padx = 10, pady=20)
     Button(self, text="Back to Main Menu", command=lambda: controller.show_frame("MainMenu")).pack()
root = Tk()
app = PhotoGalleryApp(root)
root.mainloop()
```

Result:



3.

Code:

```
from tkinter import *

Class circles:

def __init__(self):
    window = Tk()
    window.title("tk")

self.num = 0

self.canvas = Canvas(window)
    self.canvas.pack()

self.canvas.bind("<Button-1>", self.add_circle)
    self.canvas.bind("<Button-3>", self.remove_circle)

window.mainloop()

def add_circle(self, event):
    self.num += 1
    self.canvas.create_oval(event.x - 10, event.y - 10, event.y + 10, tags = ("circle", f"circle(self.num)"))
```

```
def remove_circle(self, event):
    ids = self.canvas.find_overlapping(event.x - 10, event.y - 10, event.x + 10, event.y + 10)
    for i in ids:
        self.canvas.delete(i)

circles()
```

Result:

