



HEY TULIP!!!



ACKNOWLEDGEMENT

The success of any project depends largely on people associated with it. I would like to take this opportunity to acknowledge the enthusiasm of all these personalities. I hereby express my heartfelt thanks to our Computer science teacher **Mrs. Ananthy** for having given this opportunity to do this project and for her constant encouragement. Her whole hearted encouragement and constant stimulant inspiration and advice enabled me to complete the project successfully. I am also thankful to all our teachers and Non- Teachers for their help during my course of study.

I take this opportunity to express my sincere thanks to my parents for their encouragement and support.

ABSTRACT

Some of the people in the world are ‘Plant-lover’. Specially for people who like the flower, Tulip. For those people this application is a good friend for them. Through this software, we can get to know better about tulip by asking various questions to it. This software can be also used as a entertainment purpose by taking a quiz about tulip. In this, we can learn facts about the flower, Tulip.

REQUIREMENT ANALYSIS

Hardware Requirements:

Operating System: Windows 7 and above

Processor: Pentium (any) or AMD Athalon (3800+- 4200+ dual core)

Motherboard: 1.845 or 915,995 for Pentium or MSI k9mm-v via k8m800+8237r plus chipset for AMD Athalon

Ram: 512mb+

Hard disk: Data 40 GB or above

Monitor: 14.1 or 15 -17 inch

Software Requirements:

- I. Windows OS
- II. Python
- III. SQL

APPLICATION

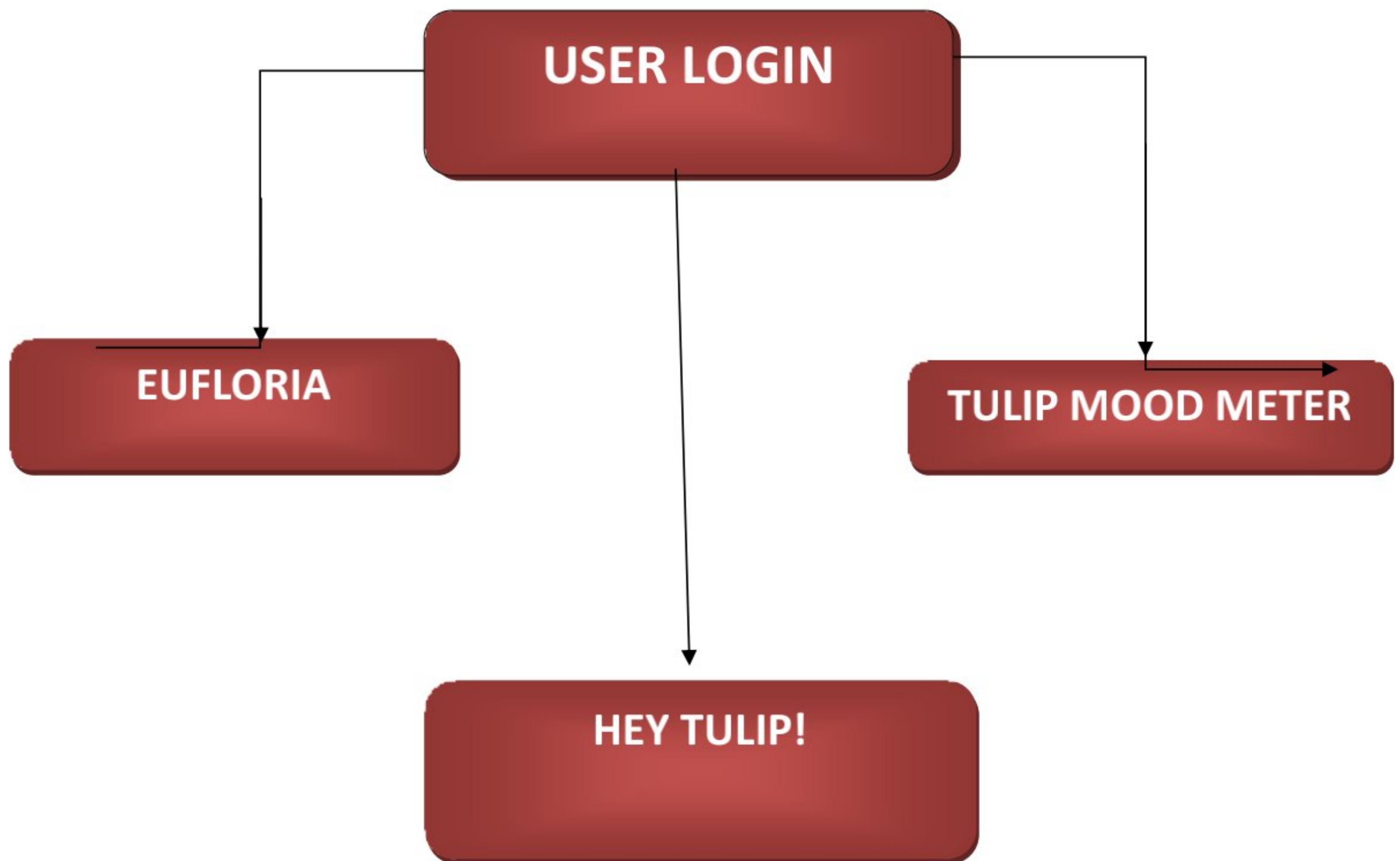
The ‘Hey Tulip!’ is an application with which a normal person could interact with Tulip. This software assures that the user gets a lot of information about Tulip

Key features of this software are:

1. We can gain a lot of information's /facts about Tulip.
2. It can engage into two way conversation between the plant and the user by asking any questions and it gives the answer to all of them.
3. It provides a virtual personal plant experience through which we can interact with them.
4. It expresses various moods based on your knowledge, your score of the quiz and etc.
5. We can test our knowledge by Eufloria (Quiz).

DESIGN

Block Diagram



Explanation

When the program is executed, the user login page would open in which two options would be available login and sign in. If the account is already signed up, we can go to login to get inside the home page. If not, the user can sign in and create a account.

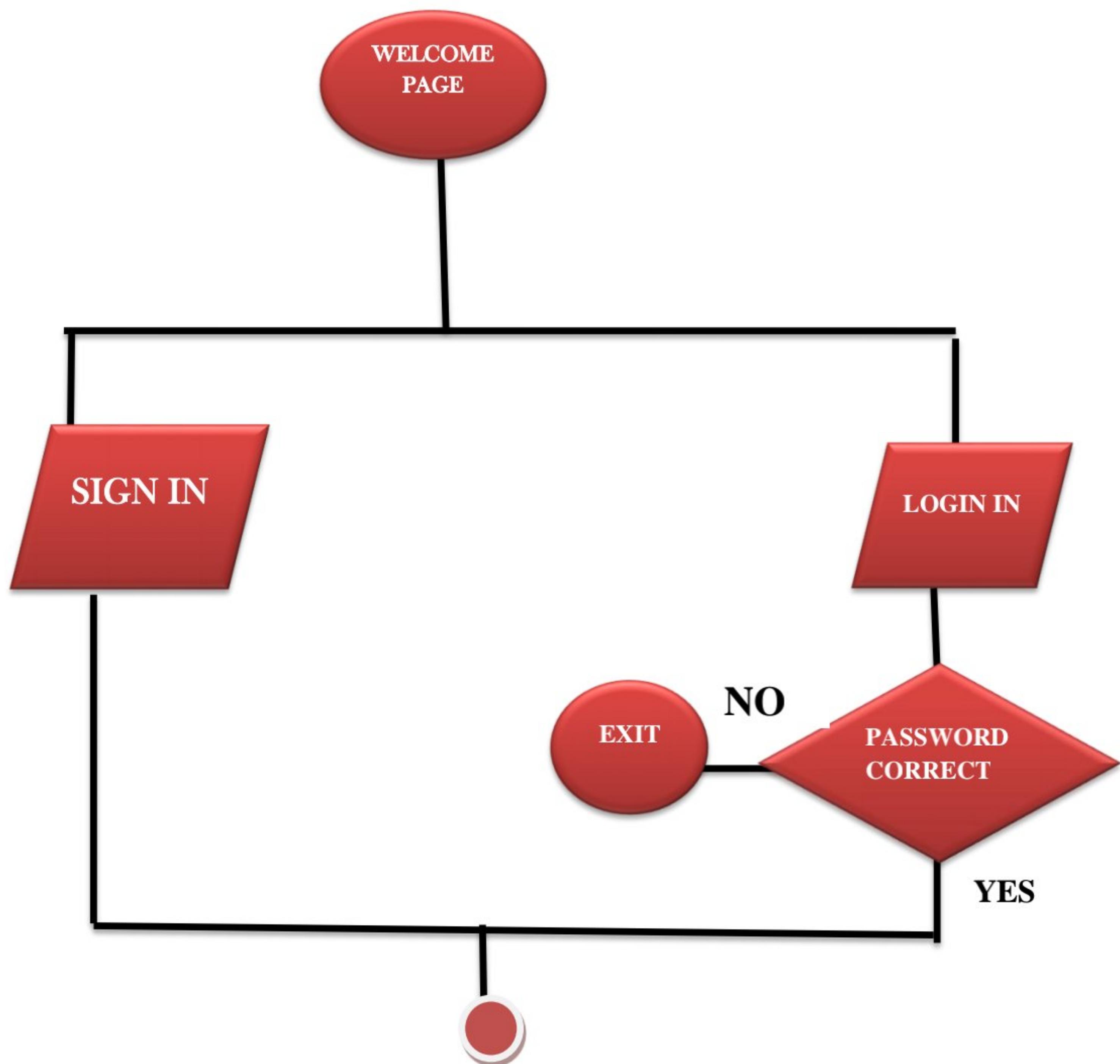
The home page will be visible after login. There would be three buttons: Eufloria , Tulip Mood Meter, Hey Tulip.

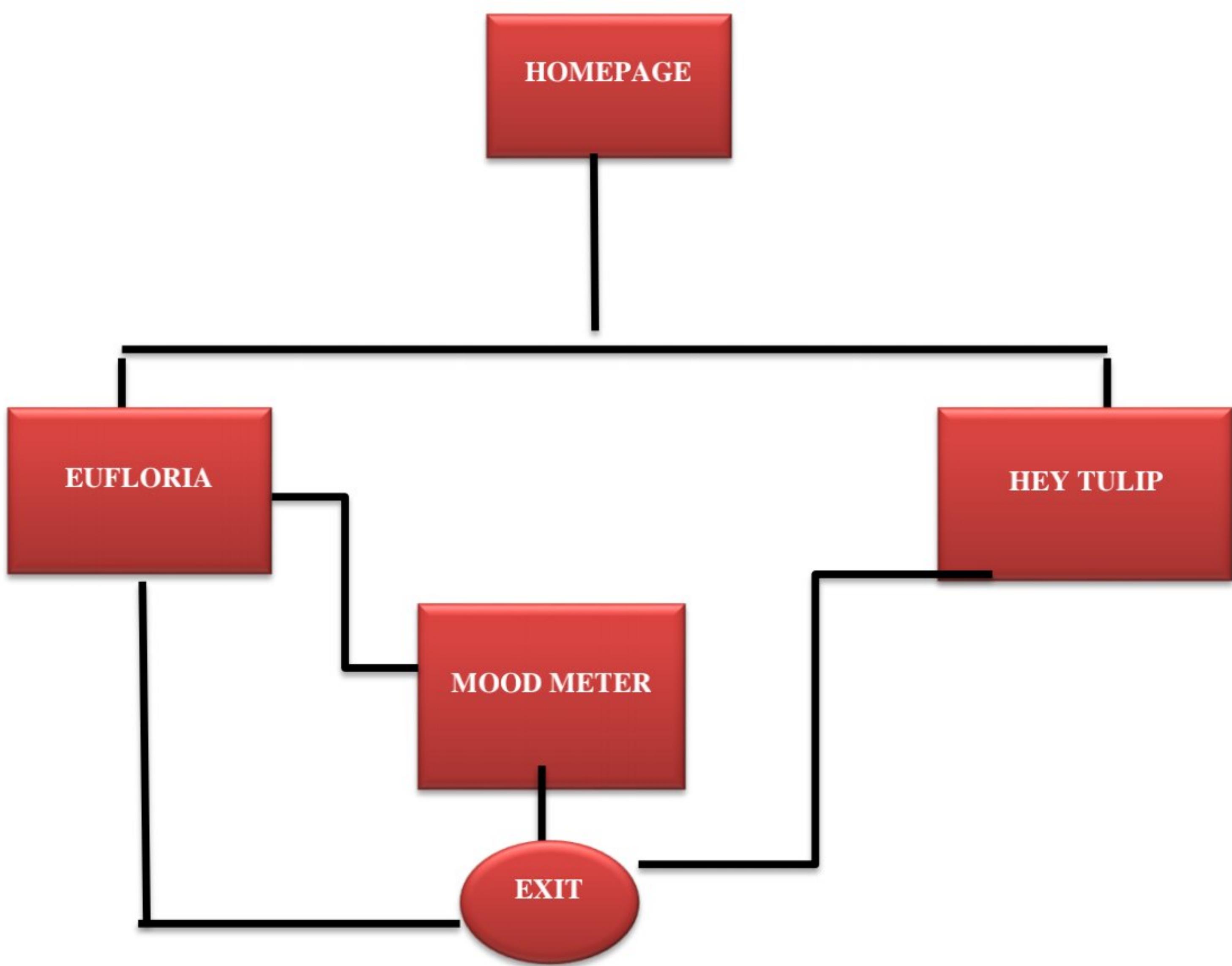
If the user press ‘Hey Tulip!’, this is nothing but a question and answer session with the application. Here, the user can ask any questions about tulip and it would give the relevant answer to it.

If the user press ‘Eufloria’ , it a quiz game where it will test the knowledge about Tulip.

If the user press ‘Tulip Mood Meter’ , it will show the mood of the tulip which is based on the score of the quiz, and the knowledge the user know about Tulip. This software provides the deeper understanding about plants.

PROJECT FLOW





ALGORITHM

Step 1: The User Login Page

Step 2: To create a new account, Sign in.

Step 3: Already existing account, Login. If the password is correct, it will enter into Homepage. If not, it will exit from the application.

Step 4: After Login, Home page will be displayed. There are three icons: Eufloria, Tulip Mood Meter, Hey Tulip!.

Step 5: If the user click ‘Hey Tulip’, it is a Q&A session.

Step 6: If the user click ‘Eufloria’, it a quiz game about Tulip.

Step 7: If the user click ‘Tulip Mood Meter’, it express the mood of the Tulip based on the performance on the quiz and the knowledge about Tulip.

SOURCE CODE

```
#Welcome page

from tkinter import *
from tkinter import messagebox

def login_button():
    import loginFrame

def sign_button():
    import sign

mywin = Tk()

mywin.title(".....::WELCOME")
mywin.geometry("300x250+400+300")
mywin.resizable(False,False)

Label(mywin,text="WELCOME TO HEY TULIP" , bg='blue', fg='pink',
      bd=5,font=('arial',12,'bold'),width=30).grid(columnspan=2)

img1=PhotoImage(file='login.png')

img2=PhotoImage(file='signin.png')
```

```
Button(mywin,image=img1,height=60, width=120,command=login_button).
```

```
    grid(row=4,column=0)
```

```
Button(mywin,image=img2,height=60, width=120,command= sign_button).
```

```
    grid(row=4,column=1)
```

```
mywin.mainloop()
```

```
#dbconnection
```

```
import mysql.connector as con
```

```
def returnConnection():
```

```
    mycon=con.connect(host='localhost',user='root',passwd='mysql',
```

```
                           database='heytulip',charset='ascii')
```

```
    return mycon
```

```
#Sign in Page
```

```
import dbConnection as mydb
```

```
from tkinter import *
```

```
from tkinter import messagebox
```

```
def signin():

    mycon = mydb.returnConnection()

    mycur = mycon.cursor()

    u=user.get()

    p=pwd.get()

    query="insert into account values('{}','{}')".format(u,p)

    mycur.execute(query)

    mycon.commit()

    messagebox.showinfo('...:::Sign in','Sign in Successfully')

    mywin.destroy()

mywin = Tk()

mywin.title("....:::Create new account")

mywin.geometry("300x250+400+300")

mywin.resizable(False,False)

user=StringVar()

pwd=StringVar()

Label(mywin,text="Sign in",bg='blue', fg='pink',bd=5,font=('arial',12,'bold'),
      width=30).grid(columnspan=2)
```

```
Label(mywin,text="User Name",bg='silver', fg='navy',bd=5,font=('arial',12,'bold')).  
    grid(row=2,column=0,pady=20)  
  
t1=Entry(mywin,bg='yellow',  
fg='navy',bd=5,font=('arial',10,'bold'),textvariable=user)  
  
t1.grid(row=2,column=1,pady=20)  
  
Label(mywin,text="Password",bg='silver',  
fg='navy',bd=5,font=('arial',12,'bold')).grid(row=3,column=0,pady=10)  
  
t2=Entry(mywin,show="*",bg='yellow',  
fg='navy',bd=5,font=('arial',10,'bold'),textvariable=pwd)  
  
t2.grid(row=3,column=1,pady=10)  
  
t1.focus_set()  
  
img1=PhotoImage(file='send button.png')  
  
Button(mywin,image=img1,height=60,  
width=120,command=signin).grid(row=4,column=0)  
  
import Homepage  
  
#Login Page  
  
from tkinter import *  
  
import dbConnection as mydb  
  
from tkinter import messagebox  
  
def login_main():
```

```
def login():

    mycon = mydb.returnConnection()

    mycur = mycon.cursor()

    u = user.get()

    p = pwd.get()

    query="select * from account where username='"+u+"' and

                                     password= '"+p+"'"

    mycur.execute(query)

    mydata = mycur.fetchone()

    print(mydata[0],mydata[1])

    if mycur.rowcount==1:

        messagebox.showinfo('...:::Login','Login Successful')

        mywin.destroy()

    else:

        messagebox.showinfo('...:::Login','Access Denied')

mywin = Tk()

mywin.title("...::::LOGIN")

mywin.geometry("300x250+400+300")

mywin.resizable(False,False)
```

```
user=StringVar()

pwd=StringVar()

Label(mywin,text="Login Information",bg='purple', fg='pink',bd=5,font= ('arial',12,'bold'), width=30).grid(columnspan=2)

Label(mywin,text="User Name",bg='silver', fg='navy',bd=5,font= ('arial',12,'bold')).grid(row=2,column=0,pady=20)

t1=Entry(mywin,bg='yellow', fg='navy',bd=5,font= ('arial',10,'bold'),textvariable=user)

t1.grid(row=2,column=1,pady=20)

Label(mywin,text="Password",bg='silver', fg='navy',bd=5,font= ('arial',12,'bold')).grid(row=3,column=0,pady=10)

t2=Entry(mywin,show="*",bg='yellow', fg='navy',bd=5,font= ('arial',10,'bold'),textvariable=pwd)

t2.grid(row=3,column=1,pady=10)

t1.focus_set()

img3=PhotoImage(file='login.png')

img4=PhotoImage(file='exit.png')
```

```
Button(mywin,image=img3,height=60,width=120,command=login).  
    grid(row=4,column=0)  
  
Button(mywin,image=img4,height=60, width=120,command=mywin.quit).  
    grid(row=4,column=1)  
  
mywin.mainloop()  
  
import Homepage  
  
login_main()  
  
#Home Page  
  
from tkinter import *  
  
from tkinter import messagebox  
  
def eufloria():  
    import quiz  
  
def heytulip():  
    import heytulip  
  
def moodmeter():  
    import moodmeter  
  
mywin = Tk()  
  
mywin.title("....:::HOME PAGE")
```

```
mywin.geometry("650x350+400+300")

mywin.resizable(False,False)

Label(mywin,text="HEY          TULIP!!!",bg='black', fg='white',bd=9, font=('arial',12,'bold'), width=64).grid(columnspan=3)

img1=PhotoImage(file='eufloria.png')

img2=PhotoImage(file='heytulipbutton.png')

img3=PhotoImage(file='mood meterbutton.png')

img4=PhotoImage(file='tulip button image.png')

img5=PhotoImage(file='exit.png')

Button(mywin,image=img1,height=60, width=120,command=eufloria).grid(row=5,column=0)

Button(mywin,image=img2,height=60, width=120,command=heytulip).grid(row=5,column=2)

Button(mywin,image=img3,height=60, width=120,command=moodmeter).grid(row=7,column=0)

Button(mywin,image=img5,height=60, width=120,command=mywin.quit).grid(row=7,column=2)

Label(mywin,image=img4,height=60, width=120).grid(row=4,column=1)

mywin.mainloop()

#json module
```

{

"question": [

"Q1. What is the height of the flower?",

"Q2. When is the blooming period of tulips?",

"Q3. How to force tulips to grow indoors?",

"Q4. Tulip is a good remedy for which skin type?",

"Q5. What is the botanical name of tulip derived from the Turkish word?",

"Q6. What is the native country of tulips?",

"Q7. Where is the plantation time of the Tulips? ",

"Q8. How many varieties of tulips exist today?",

"Q9. In Ancient Times tulips were the symbol of:",

"Q10. Which of the following country is known as Land of Tulips?"

],

"answer": [

3,

1,

1,

2,

2,

1,

2,

1,

2,

3

],

"options": [

["9-12 inches",

"6-15 inches",

"4-27 inches"

],

["Spring",

"Autumn",

"Summer"

],

["By placing in a water vase",

"By placing in sun",

"By placing in dark place"

],

["Oily skin",

"Dry skin",

"Acne prone"

],

["Testimony",

"Turban",

"Toothsome"

],

["Turkey",

"Afghanistan",

"Europe"

],

["Summer",

"Autumn",

"Winter"

],

["About 3,000",

"About 6,000",

```
"About 4,000"  
],  
["Status",  
"Middle Class",  
"Aristocracy"  
,  
["Germany",  
"Italy",  
"Holland"  
]  
]  
}
```

```
#Eufloria (quiz)  
from tkinter import *  
from tkinter import messagebox as mb  
import json  
class Quiz:
```



```
def check_ans(self, q_no):

    if self.opt_selected.get() == answer[q_no]:

        return True


def next_btn(self):

    if self.check_ans(self.q_no):

        self.correct += 1

        self.q_no += 1

        if self.q_no==self.data_size:

            self.display_result()

            gui.destroy()

        else:

            self.display_question()

            self.display_options()

    def buttons(self):
```

```
next_button = Button(gui, text="Next",command=self.next_btn,
                     width=10,bg="blue",fg="white",font=("ariel",16,"bold"))

next_button.place(x=350,y=380)

quit_button = Button(gui, text="Quit", command=gui.destroy,
                     width=5,bg="black", fg="white",font=("ariel",16," bold"))

quit_button.place(x=700,y=50)

def display_options(self):
    val=0
    self.opt_selected.set(0)
    for option in options[self.q_no]:
        self.opts[val]['text']=option
        val+=1

def display_question(self):
    q_no = Label(gui, text=question[self.q_no], width=60,
                 font=( 'ariel' ,16, 'bold' ), anchor= 'w' )

    q_no.place(x=70, y=100)
```



```
gui.geometry("800x450")
```

```
gui.title("Eufloria (Quiz)")
```

```
with open('data.json') as f:
```

```
    data = json.load(f)
```

```
question = (data['question'])
```

```
options = (data['options'])
```

```
answer = (data[ 'answer'])
```

```
quiz = Quiz()
```

```
gui.mainloop()
```

```
#Hey Tulip!
```

```
import tkinter as tk
```

```
mywin= tk.Tk()
```

```
mywin.title("Hey Tulip")
```

```
mywin.geometry('500x500')
```

```
def printInput():
```

```
    inp = inputtxt.get(1.0, "end-1c")
```

if inp=='Hi' or inp=='Who are you' or inp=='Define yourself':

lbl.config(text='Output:' + '\nHello there! I am your Tulip assistant.\nAsk
any questions about Tulip')

if inp=='When to plant tulip bulbs?':

lbl.config(text='Output:' + '\n In general, the best time to plant tulip
bulbs is in the \n fall around the months of October to November
in the Northern Hemisphere. \nIf you live in a mild winter
area, you could even wait until December. \nKeep in mind that
those residing on the opposite side of the globe (Southern
Hemisphere),\n like Australia, will have different planting times –
such as late \nApril to May.)

if inp=='Why are there no flowers on my bulbs, just green leaves?':

lbl.config(text='Output:' + '\n1. Lack of Nutrients'+
'\n 2. Inadequate Growing Conditions' +
'\n 3. Energy-Deprived Bulbs:' +
'\n 4. Bad Bulbs')

if inp=='What is the height of the tulip flower?':

lbl.config(text='Output:' + '\nThe upright flowers may be single or
double,\n and vary in shape from simple cups, bowls, and

goblets to more complex forms. \nHeight ranges from 4-27 inches.')

if inp=='When is the blooming period of tulips?':

lbl.config(text='Output:' + '\nThe best chance of having the most beautiful
tulip fields is in Spring \n from mid-April to early May.')

if inp=='When should you dig up and divide tulips?':

lbl.config(text='Output:' + '\nTulips should only be dug up and divided
after \n their foliage has completely died back,\n which would
make your target any time from mid-summer to mid-fall.')

if inp=='Tulip is a good remedy for which skin type?':

lbl.config(text='Output:' + '\nCosmetic uses of Tulip are Best for Dry
sensitive skin,\n Used in creams, hand lotions and in
essential oils, \nUsed in Perfumes.')

if inp=='How do I keep animal pests from eating my tulips?':

lbl.config(text='Output:' + '\n Tulips should only be dug up and divided
after their \nfoliage has completely died back, \n which would
make your target any time from mid-summer to mid-fall.')

if inp=='What is the botanical name of tulip derived from the Turkish word?':

lbl.config(text='Output:' + '\n The botanical name for tulips, Tulipa, is
derived from the Turkish word\n “tulbend” or “turban”,

which the flower resembles. \nIts considered as the King of Bulbs.)

if inp=='What is the native country of tulips?':

lbl.config(text='Output:' + '\n Tulips are native to Central Asia and Turkey. \nIn the 16th Century they were brought to Holland from Turkey,\n and quickly became widely popular.')

if inp=='Where is the plantation time of the Tulips?':

lbl.config(text='Output:' + '\nPlant tulip bulbs in moist but well-drained soil in a sunny spot in mid- to late autumn – November is ideal.')

if inp=='Do blooming tulips need protection in winter?':

lbl.config(text='Output:' + '\nTulips and other bulbs in bloom are more sensitive \nto frosts and freezes than they are when their buds are in a closed state. \nAnd this is really more of a concern for periods of prolonged cold,\n lasting several days. However, to err on the side of caution, \na bed sheet hovered over the plants,\n supported by stakes, is an ideal way to protect your plants.')

if inp=='How many varieties of tulips exist today?':

lbl.config(text='Output:' + '\nThere are currently over 3,000 registered varieties, which are divided into fifteen groups,\n mostly

based on the flower type, size, and blooming period of the tulip.)

if inp=='In Ancient Times tulips were the symbol of':

```
lbl.config(text='Output:' + '\nTulips remained a symbol of power and  
status,\nso middle and upper classes sought these  
flowers for their own gardens.\n Some even placed  
mirrors in their garden to create the illusion\n that they  
owned more tulips than they actually did.)
```

```
inputtxt =tk.Text(mywin,height = 10,width = 30)
```

```
inputtxt.pack()
```

```
#Tulip Mood Meter
```

```
from tkinter import *
```

```
mywin = Tk()
```

```
mywin.title(".....MOOD METER")
```

```
mywin.geometry("300x250+400+300")
```

```
mywin.resizable(False,False)
```

```
img1=PhotoImage(file='icons8.png')
```

```
if score<=30:
```

```
    img1=PhotoImage(file='icons8.png')
```

```
Label(mywin,image=img1,height=220, width=220).grid(row=1,column=4)

else score<=50:

    img2=PhotoImage(file='icons9.png')

    Label(mywin,image=img2,height=220, width=220).grid(row=1,column=4)

else score<=70:

    img3=PhotoImage(file='icons10.png')

    Label(mywin,image=img3,height=220, width=220).grid(row=1,column=4)

else score<=100:

    img4=PhotoImage(file='icons11.png')

    Label(mywin,image=img4,height=220, width=220).grid(row=1,column=4)

from tkinter import *

mywin = Tk()

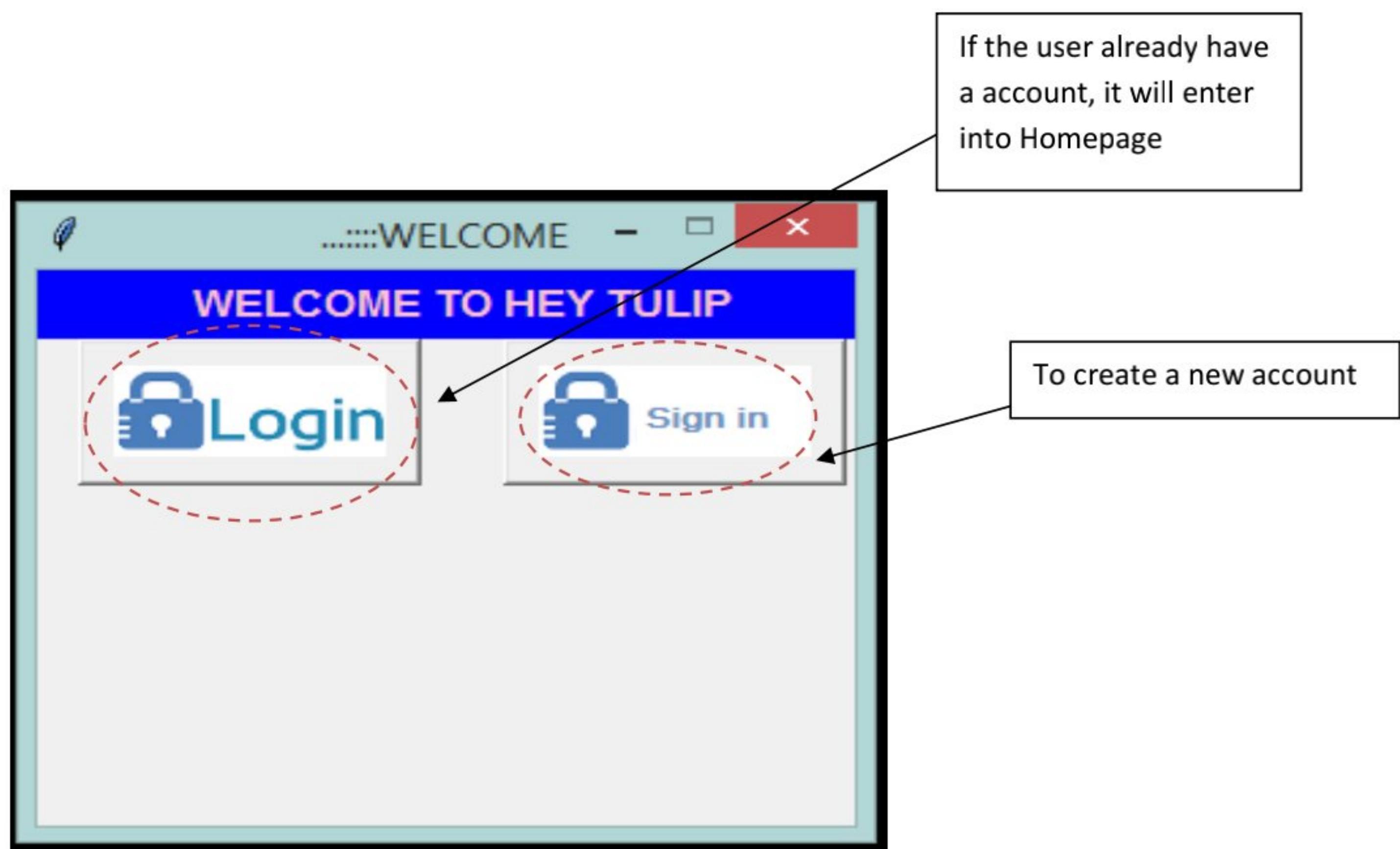
mywin.title(".....MOOD METER")

mywin.geometry("300x250+400+300")

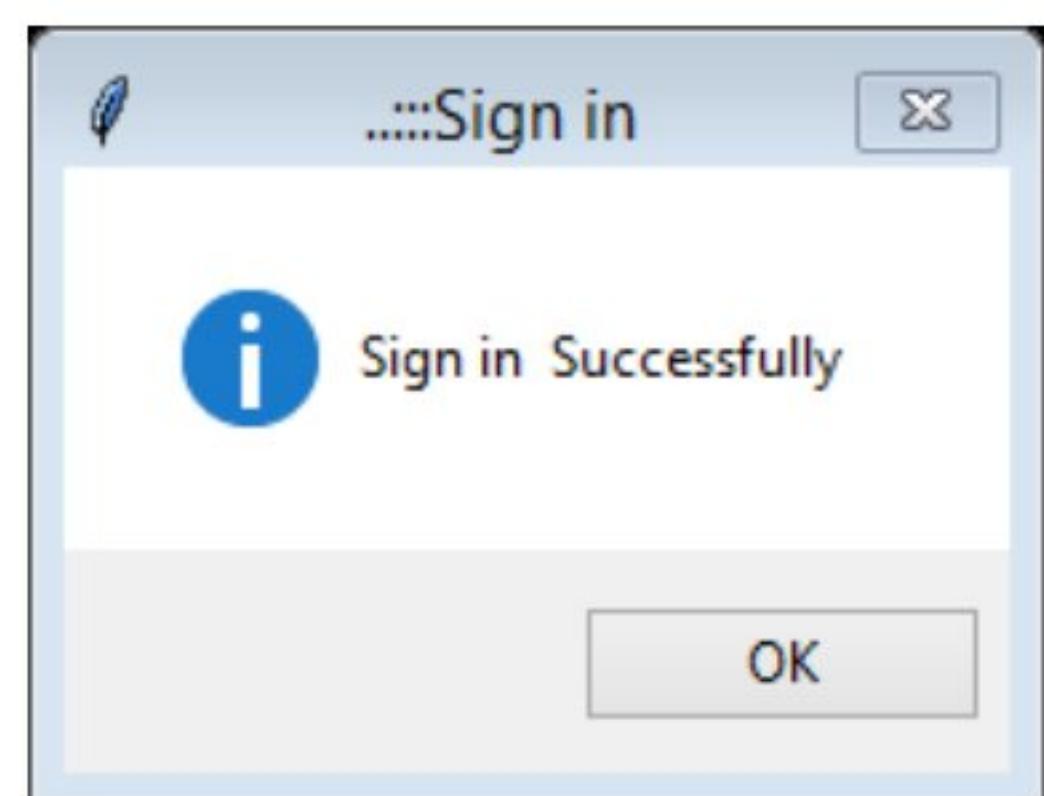
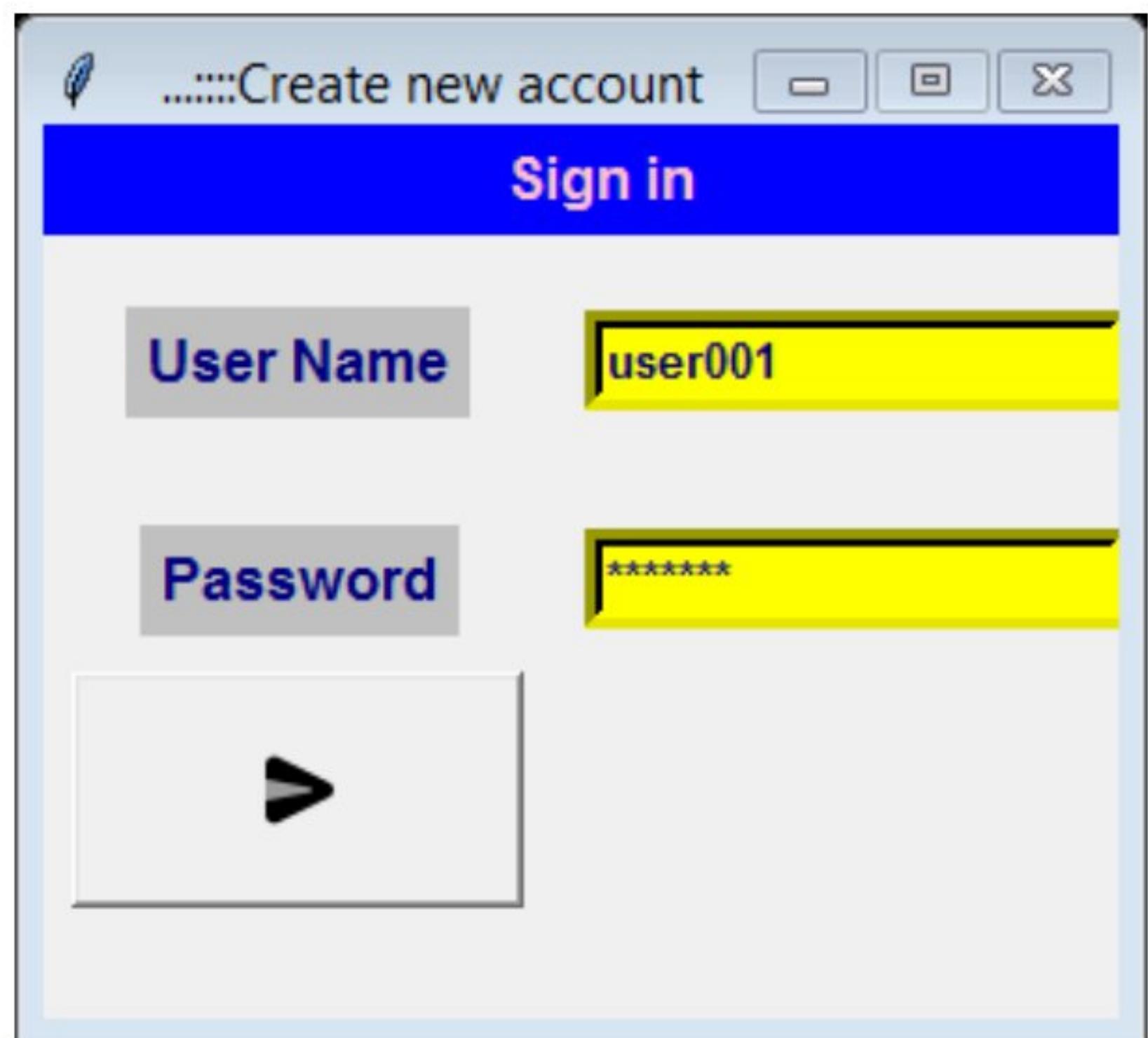
mywin.resizable(False,False)
```

EXECUTION SCREENSHOTS

Welcome Page



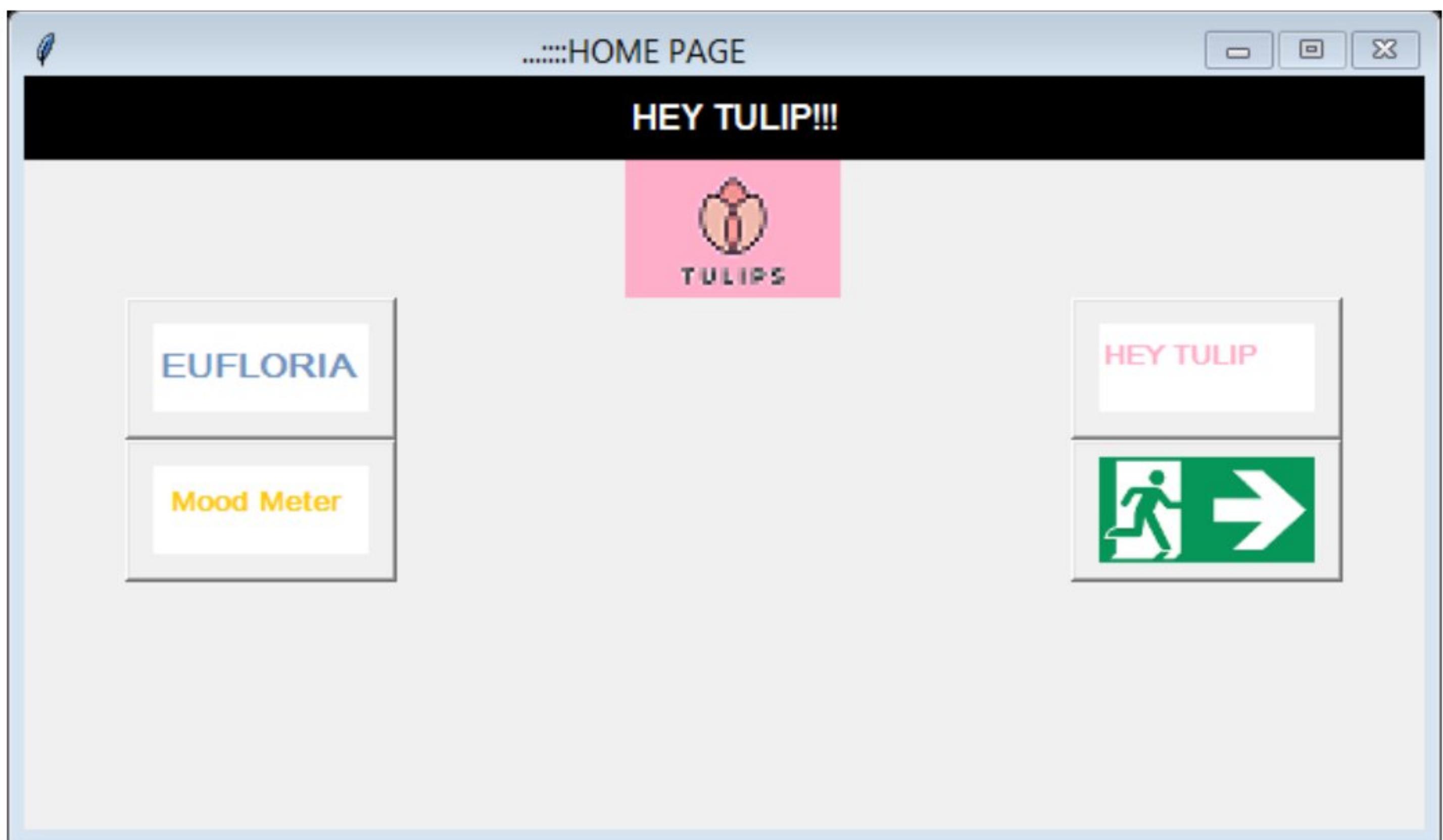
Sign in Page



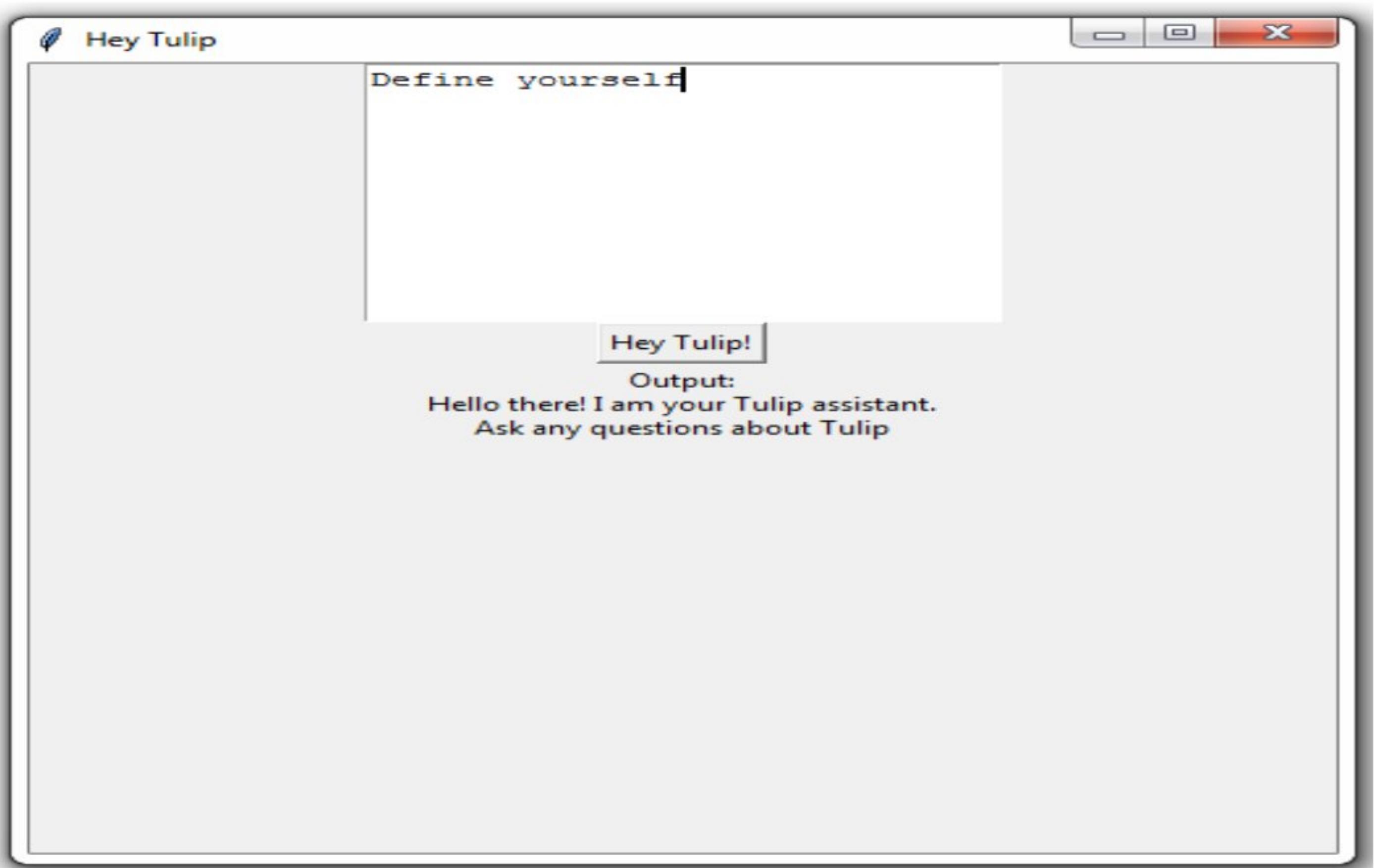
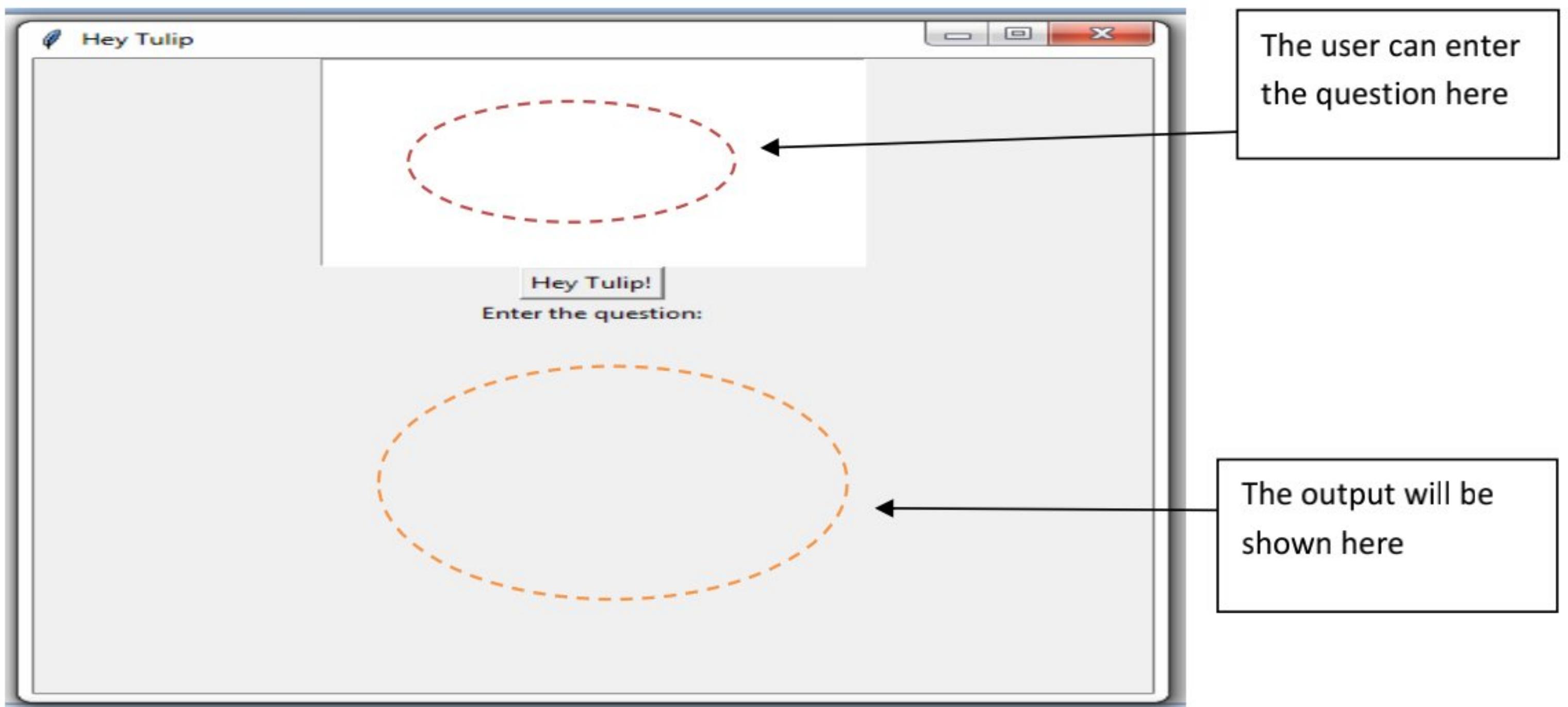
Login Page

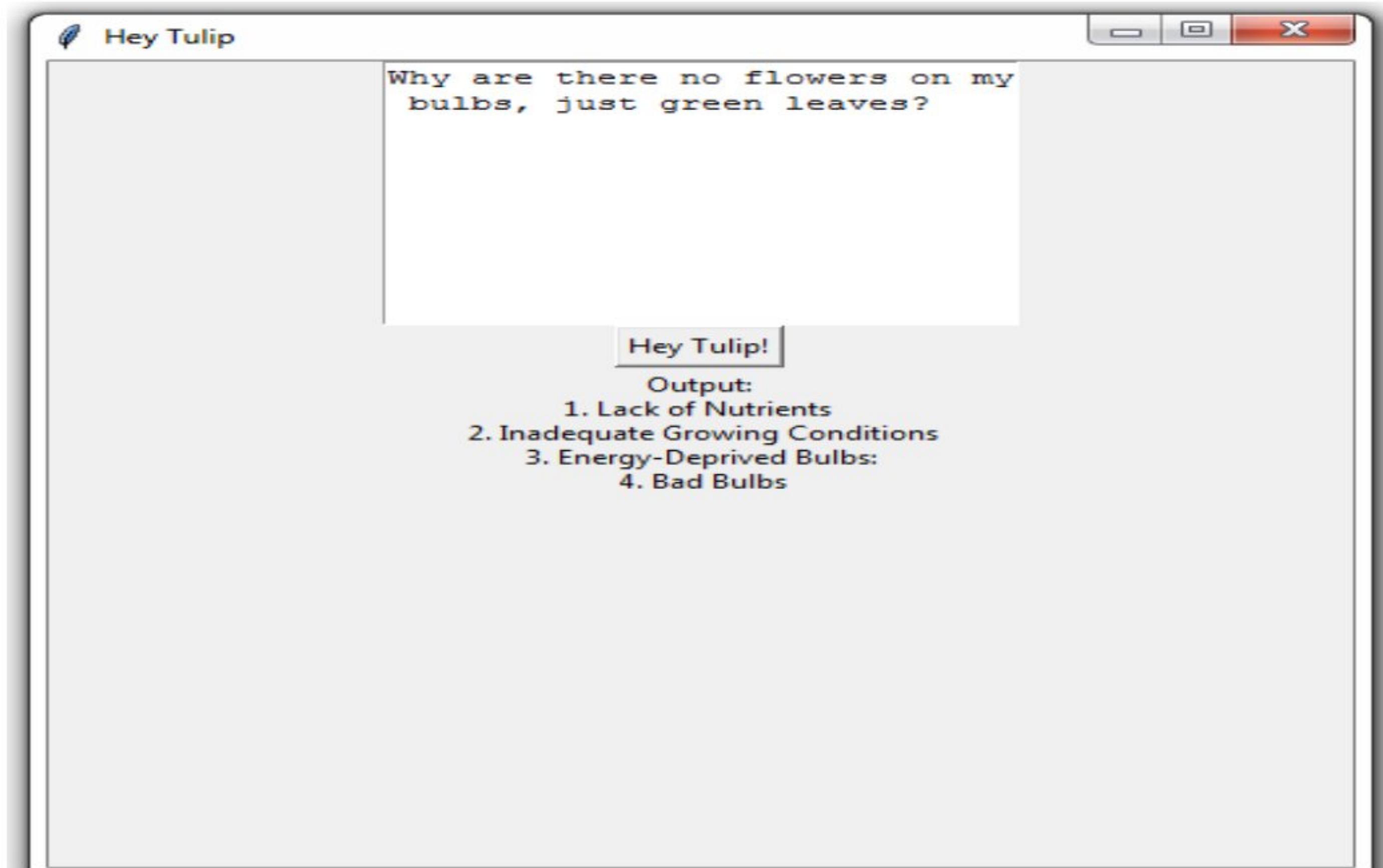
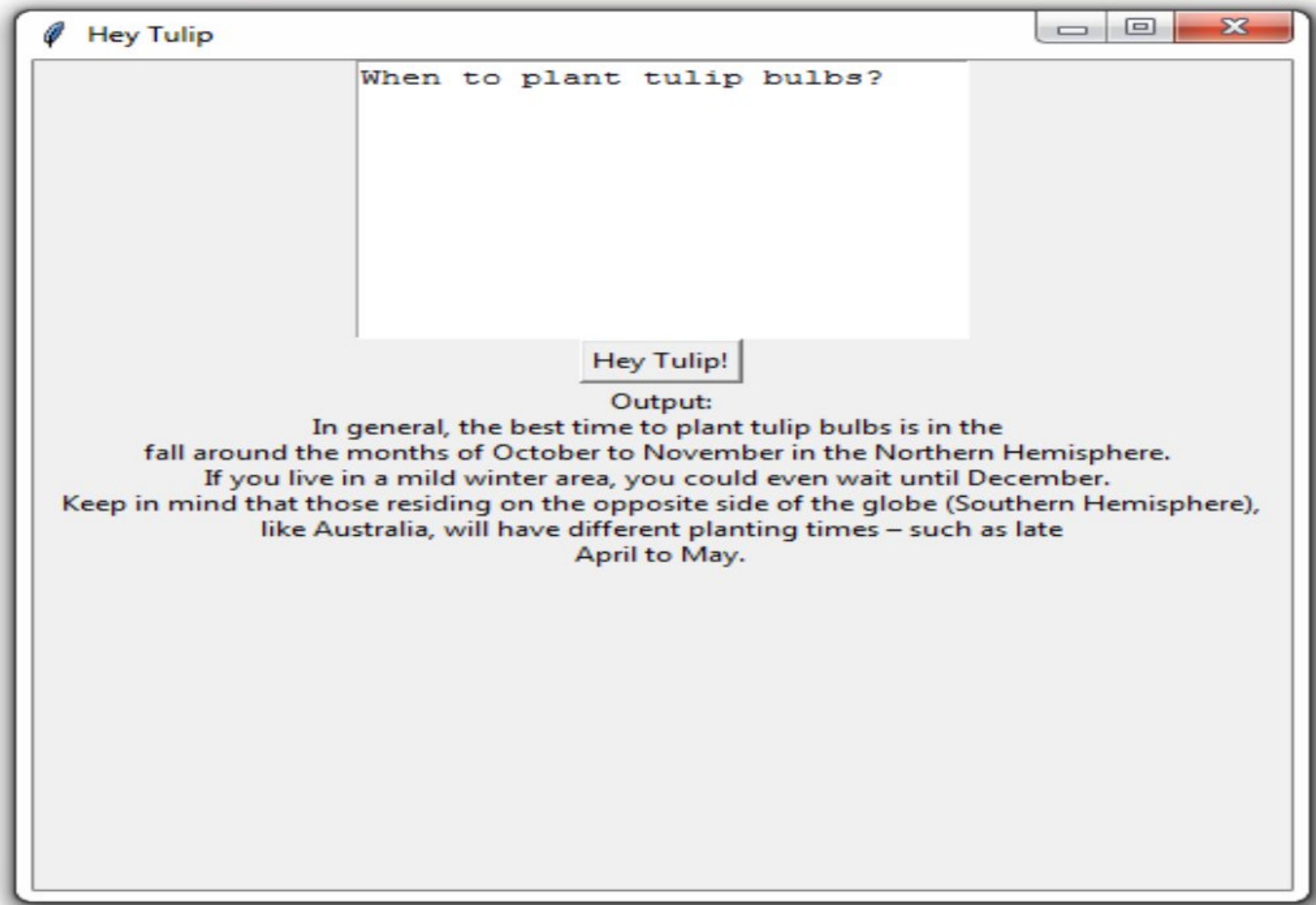


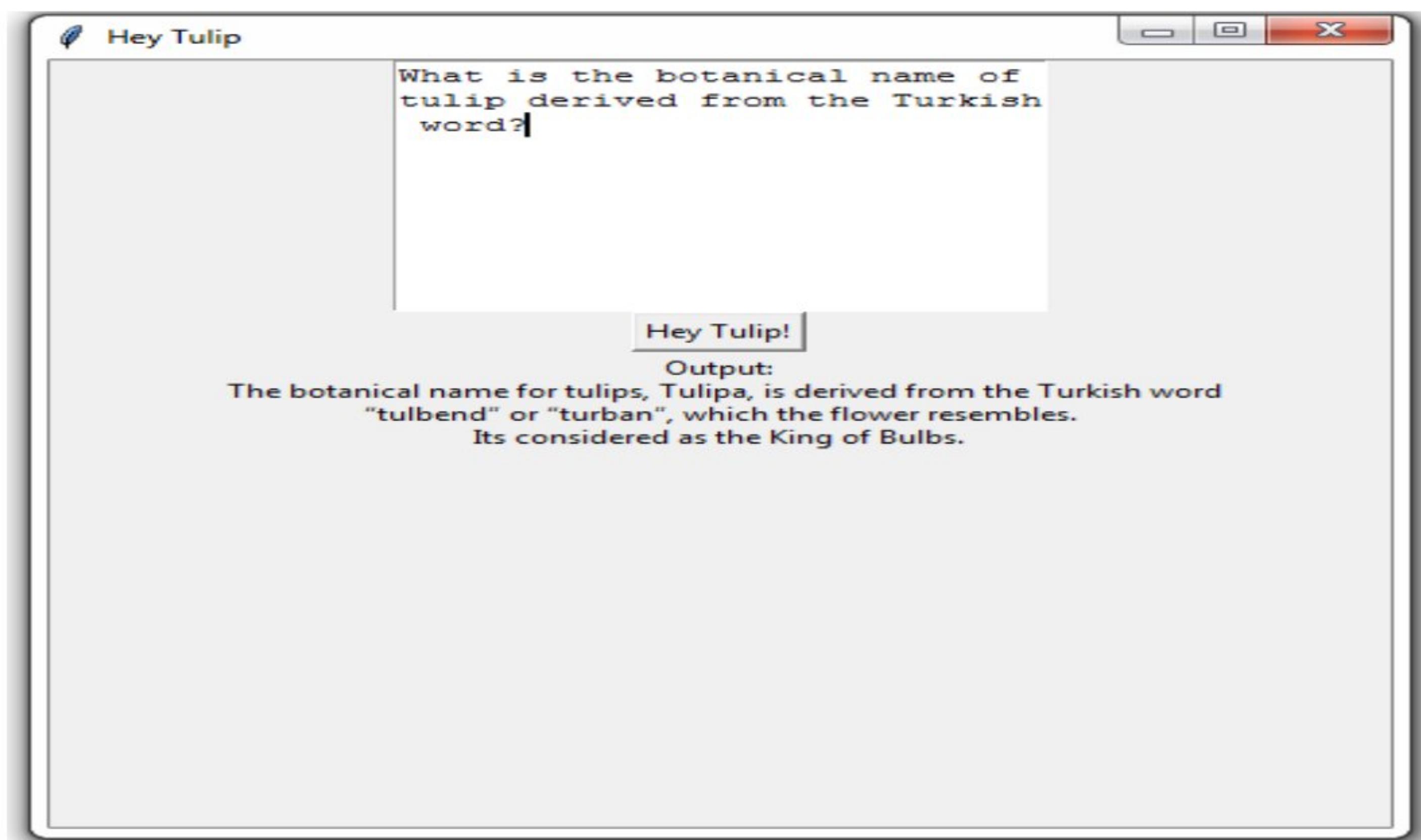
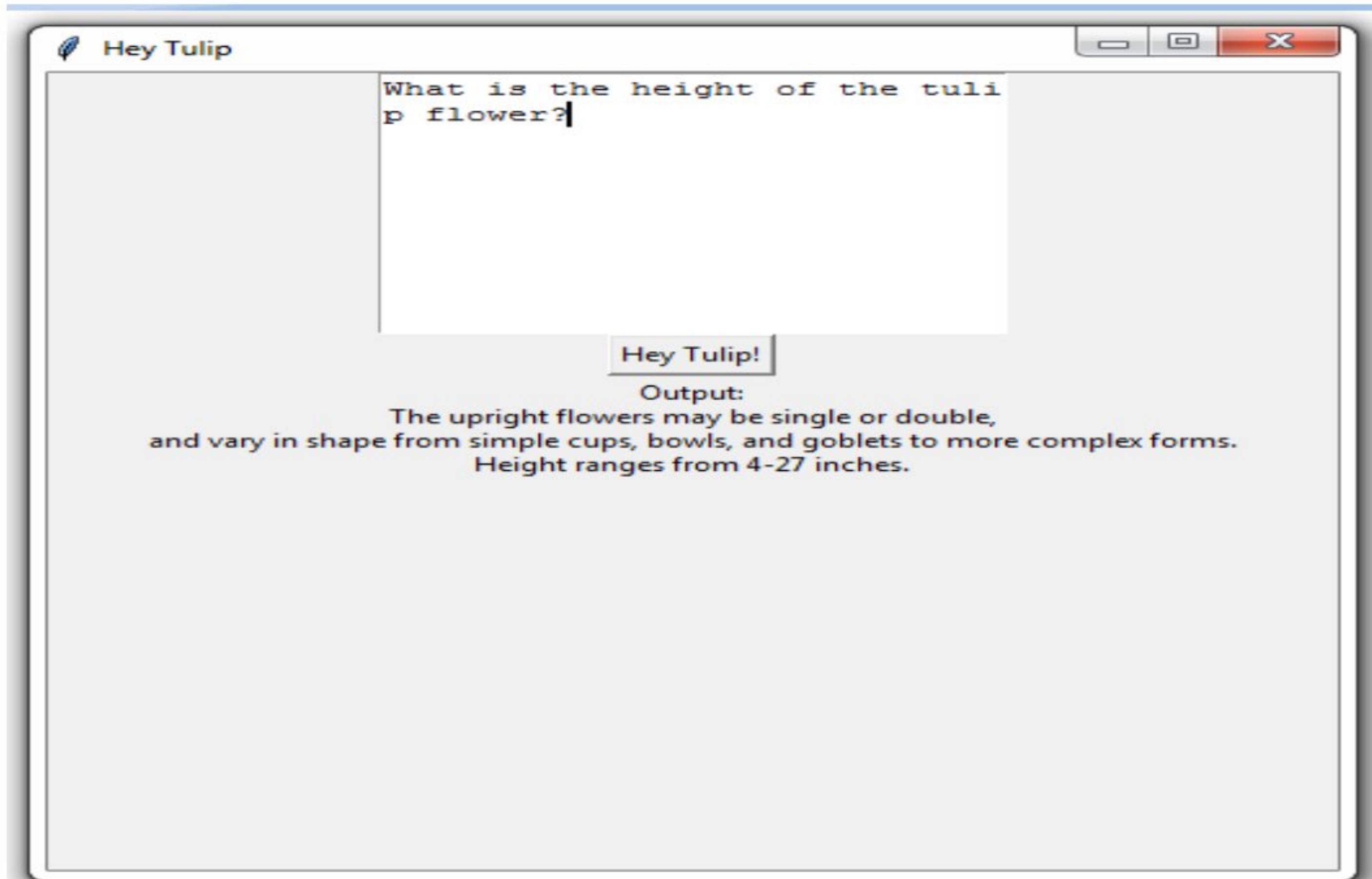
Home Page



Hey Tulip Page



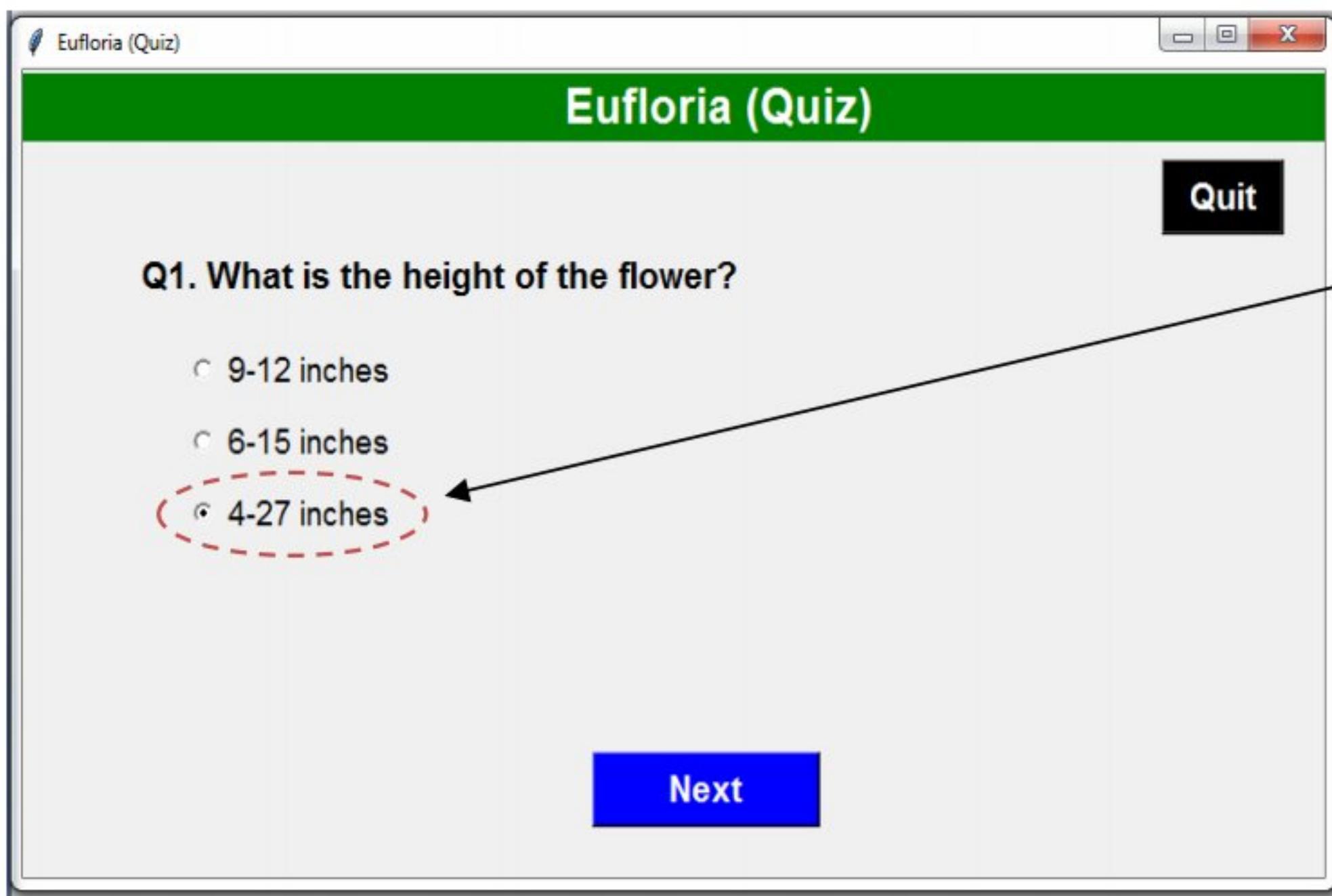




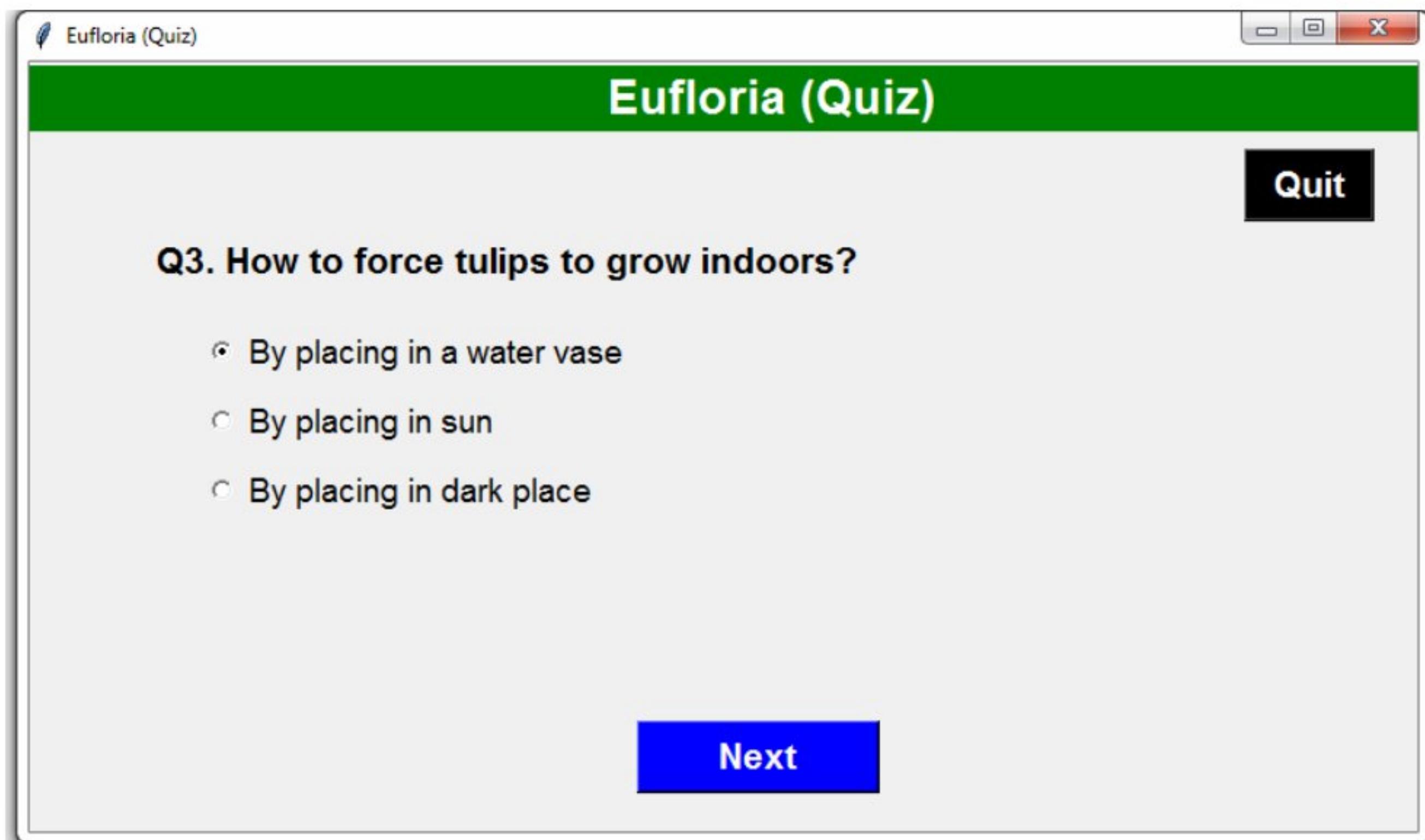
Tulip Mood Meter

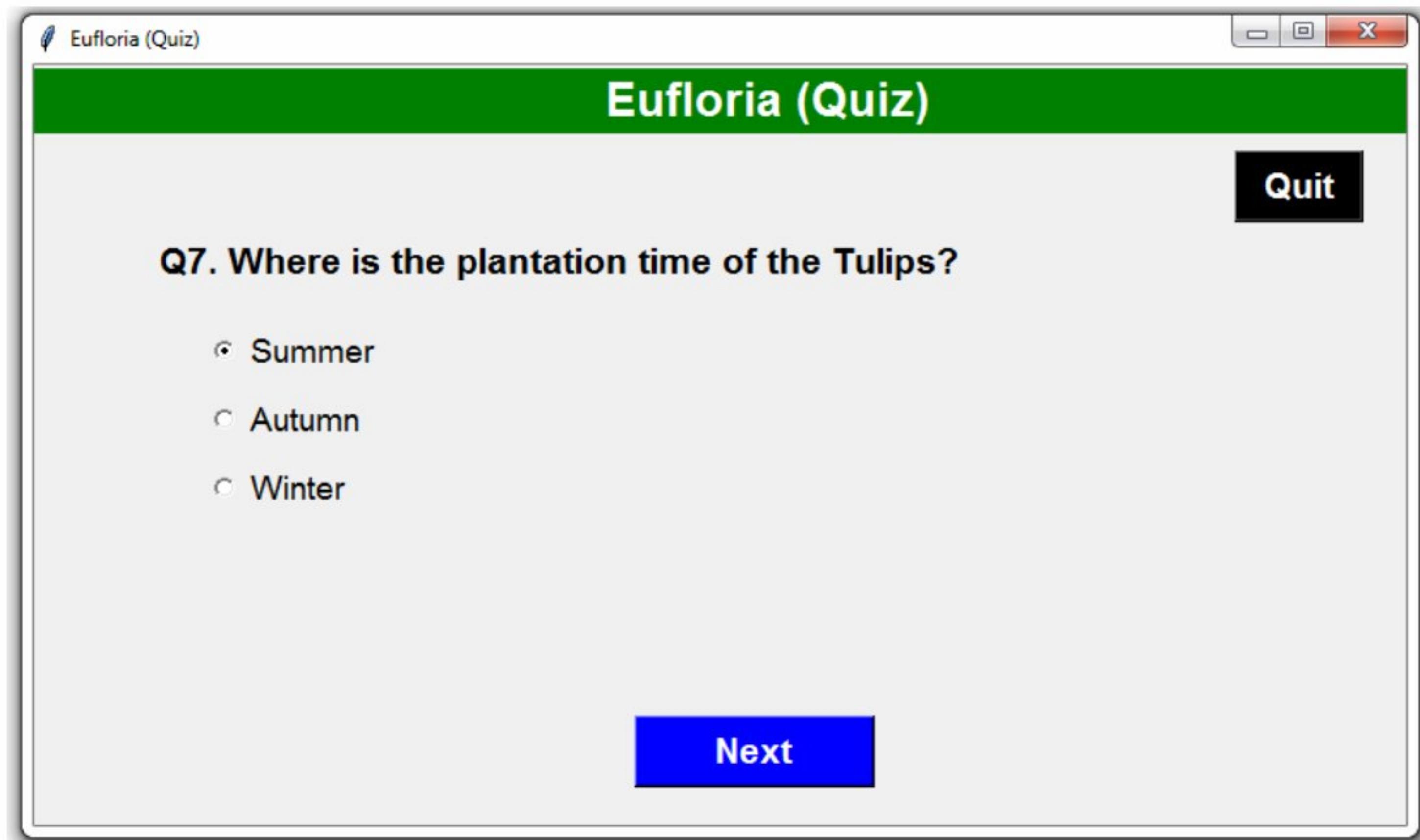
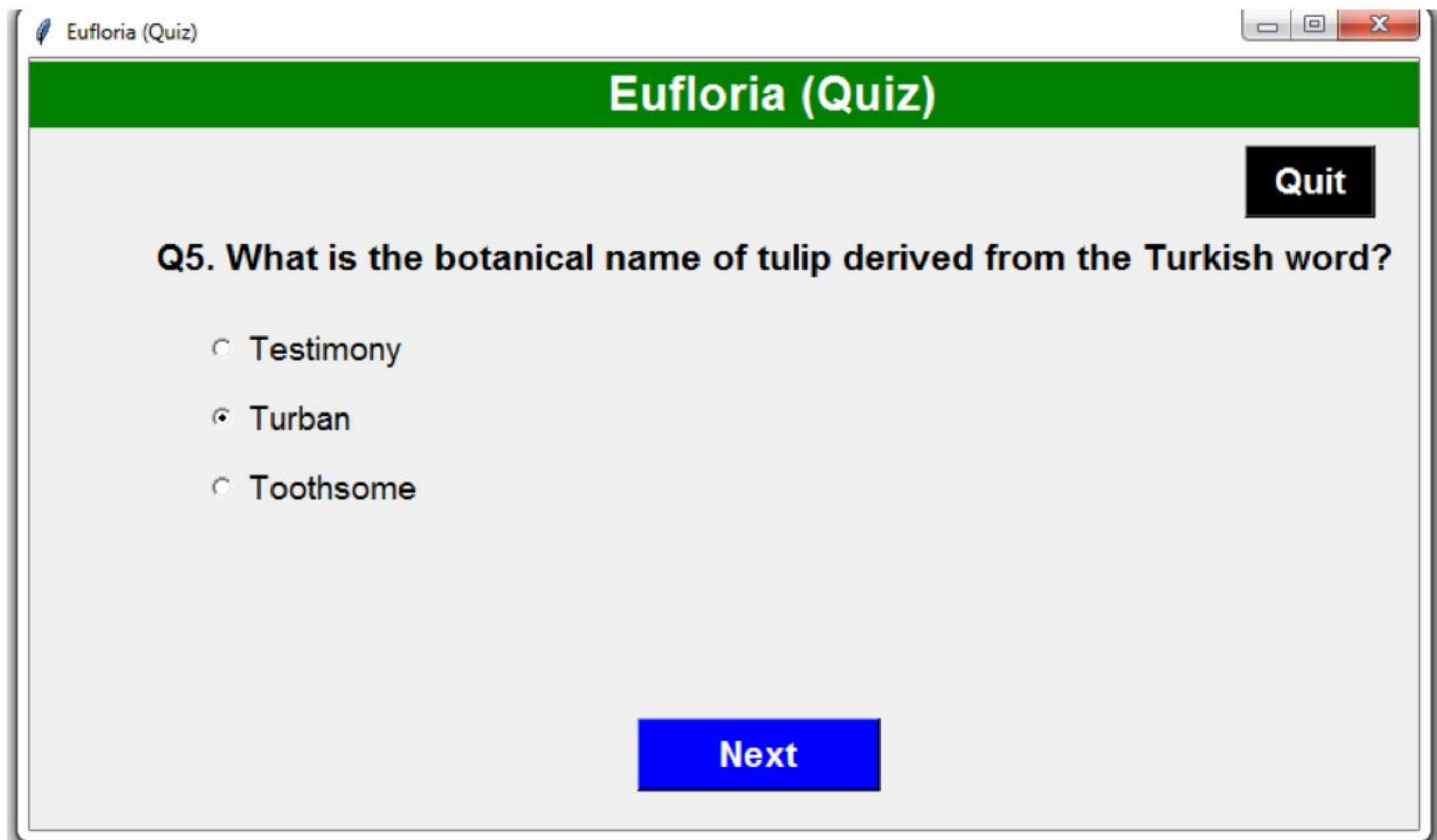


Eufloria (Quiz)



We can choose the options by the check button
we can choose the options by the check button





 Eufloria (Quiz)

Eufloria (Quiz)

Quit

Q9. In Ancient Times tulips were the symbol of:

- Status
- Middle Class
- Aristocracy

Next

 Eufloria (Quiz)

Eufloria (Quiz)

Quit

Q10. Which of the following as Land of Tulips?

- Germany
- Italy
- Holland

 Result

Score: 70%
Correct: 7
Wrong: 3

OK

Next

FUTURE ENHANCEMENT

In future this project can be developed into two-way conversations based on AI, and we can develop this program as education application with video learning

And we can create more additional information about flora and fauna through this program the user can get to know about more information

And we can develop free public blog page for the user to share their ideas and knowledge.

We can add notification feature to give a reminder to user

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