REPORT FOR MAKING ALARM CLOCK USING GUI

As a project work for course

Python programming (Int213)

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Program : B.Tech.CSE

Semester : Third School of Computer Science and Engineering

Name of the University : Lovely Professional University

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1 INTRODUCTION:-

1.1 Context :-

This project has been done as part of my course for the CSE(H) at Lovely Professional University . Supervised by Sagar Pande, I have three months to fulfill the requirements in order to succeed the module.

1.2 Motivations :-

Being extremely interested in everything having a relation with the python programming, the group project was a great occasion to give us the time to learn and confirm our interest for this field. The fact that we can make estimations, predictions and give the ability for python programming learn by themselves is both powerful and limitless in term of application possibilities. We can use python programming almost everywhere. That's why I decided to conduct my project around the python programming.

1.3 Idea:-

As a first experience, we wanted to make my project as much didactic as possible by approaching every different steps of the python programming process and trying to understand them deeply. Known as "Alarm Clock"

The goal is to do perfect coading in python,and became a master at programming.

Project Maker/Presenter Name

Omkar Kandekar :-

Works on :-

1 Coading.

2 python programming.

3 Making alarm clock using GUI.

4 Makes report.

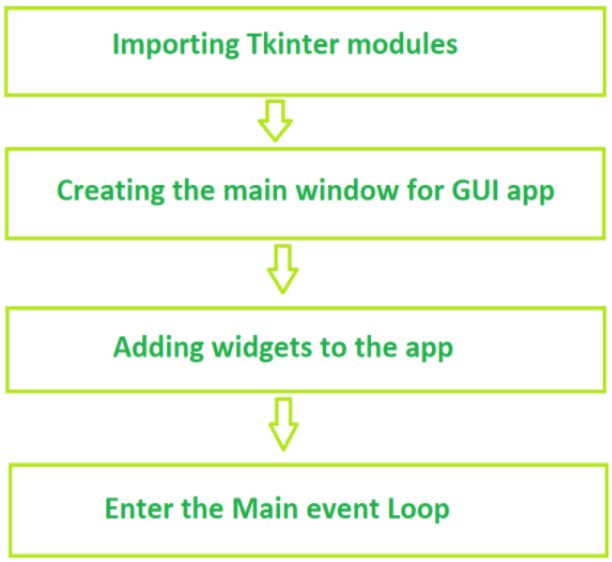
LIBRARIES:-

1.1 Graphical User Interface(GUI) :-

Graphical User Interface(GUI) is a form of user interface which allows users to interact with computers through visual indicators using items such as icons, menus, windows, etc. It has advantages over the Command Line Interface(CLI) where users interact with computers by writing commands using keyboard only and whose usage is more difficult than GUI.

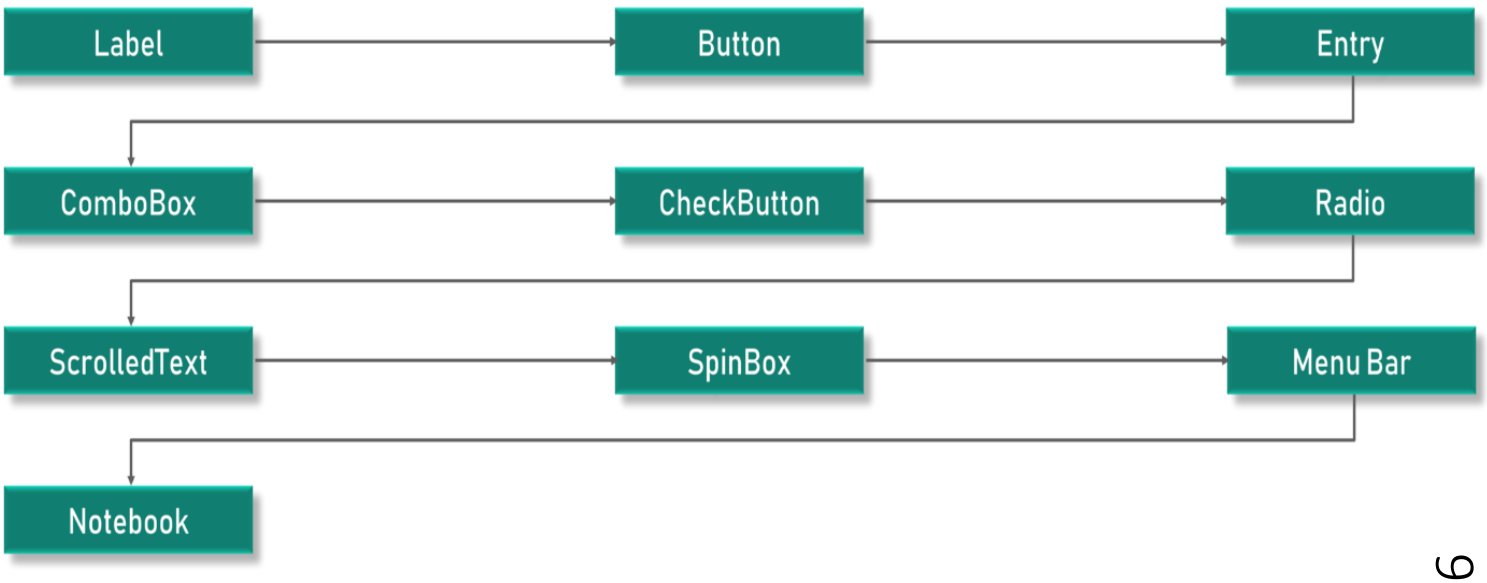
1.2.Tkinker :-

Tkinter is the inbuilt python module that is used to create GUI applications. It is one of the most commonly used modules for creating GUI applications in Python as it is simple and easy to work with. You don't need to worry about the installation of the Tkinter module separately as it comes with Python already. It gives an object-oriented interface to the Tk GUI toolkit.



1.3 Widgets: -

Widgets	Description
Label	It is used to display text or image on the screen
Button	It is used to add buttons to your application
ComboBox	It contains a down arrow to select from list of available options
CheckButton	It displays a number of options to the user as toggle buttons from which user can select any number of options.
Entry	It is used to input single line text entry from user
Message	It works same as that of label and refers to multi-line and non-editable text
Scale	It is used to provide a graphical slider which allows to select any value from that scale

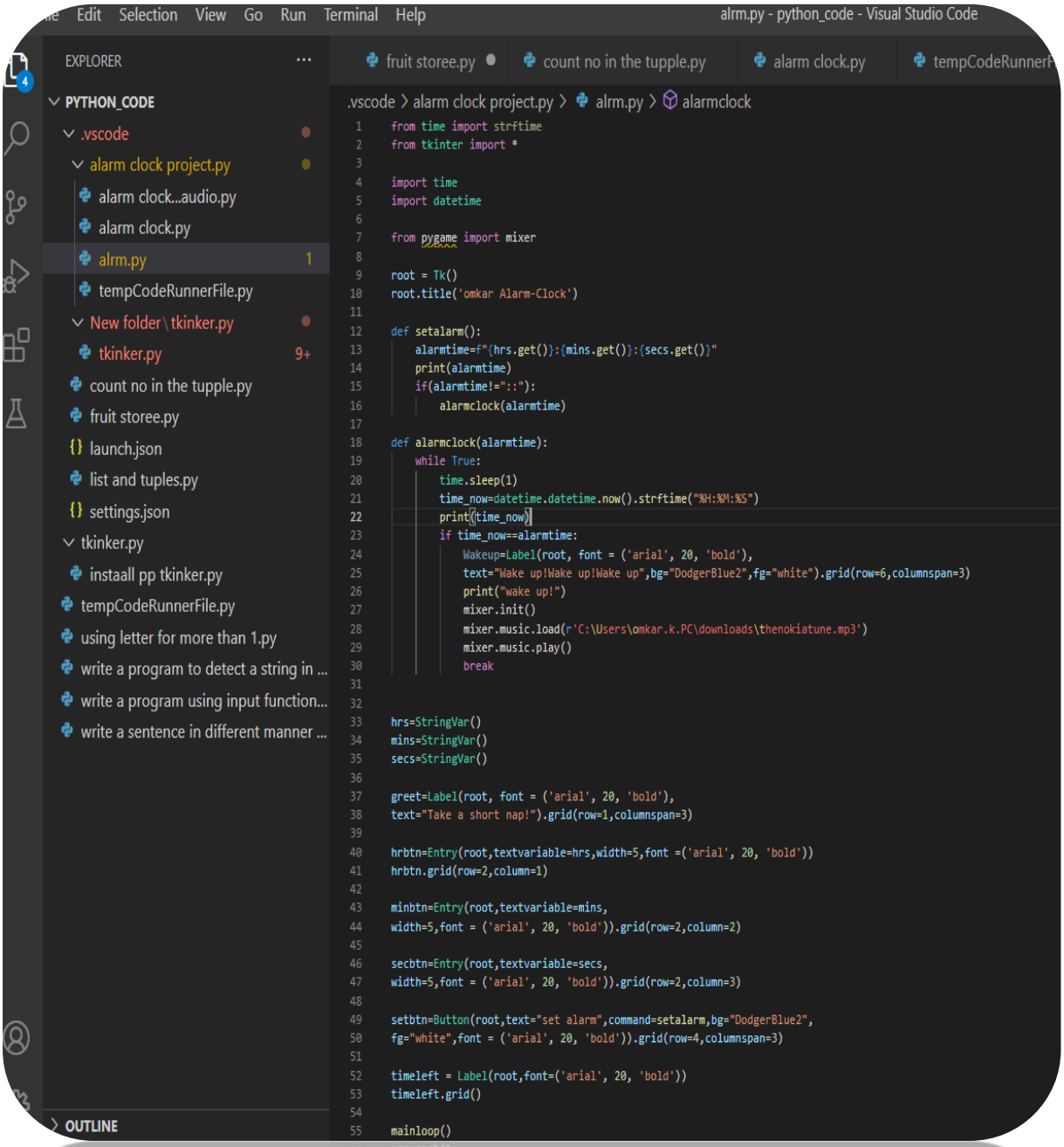


Program

```
from time import strftime
from tkinter import *
import time
import datetime

from pygame import mixer

root = Tk()
root.title('omkar Alarm-Clock')
def setalarm():
    alarmtime=f"{hrs.get()}:{mins.get()}:{secs.get()}"
    print(alarmtime)
    if(alarmtime!="::"):
        alarmclock(alarmtime)

def alarmclock(alarmtime):
    while True:
        time.sleep(1)
        time_now=datetime.datetime.now().strftime("%H:%M:%S")
        print(time_now)
        if time_now==alarmtime:
            Wakeup=Label(root, font = ('arial', 20, 'bold'),
            text="Wake up!Wake up!Wake
up",bg="DodgerBlue2",fg="white").grid(row=6,columnspan=3)
```

```
        print("wake up!")
        mixer.init()
        mixer.music.load(r'C:\Users\omkar.k.PC\downloads\thenokiatune.mp3')
        mixer.music.play()
        break
hrs=StringVar()
mins=StringVar()
secs=StringVar()
greet=Label(root, font = ('arial', 20, 'bold'),
text="Take a short nap!").grid(row=1,columnspan=3)

hrbtn=Entry(root,textvariable=hrs,width=5,font =('arial', 20, 'bold'))
hrbtn.grid(row=2,column=1)

minbtn=Entry(root,textvariable=mins,
width=5,font = ('arial', 20, 'bold')).grid(row=2,column=2)

secbtn=Entry(root,textvariable=secs,
width=5,font = ('arial', 20, 'bold')).grid(row=2,column=3)

setbtn=Button(root,text="set alarm",command=setalarm,bg="DodgerBlue2",
fg="white",font = ('arial', 20, 'bold')).grid(row=4,columnspan=3)

timeleft = Label(root,font=('arial', 20, 'bold'))
timeleft.grid()
mainloop()
```

screenshot


Edit Selection View Go Run Terminal Help
alrm.py - python_code - Visual Studio Code
EXPLORER
PYTHON_CODE
.vscode
alarm clock project.py
alarm clock...audio.py
alarm clock.py
alrm.py 1
tempCodeRunnerFile.py
New folder\tkinker.py
tkinker.py 9+
count no in the tupple.py
fruit storee.py
launch.json
list and tuples.py
settings.json
tkinker.py
instaall pp tkinker.py
tempCodeRunnerFile.py
using letter for more than 1.py
write a program to detect a string in ...
write a program using input function...
write a sentence in different manner ...
OUTLINE
fruit storee.py
count no in the tupple.py
alarm clock.py
.vscode > alarm clock project.py > alrm.py > alarmclock
from time import strftime
from tkinter import *
import time
import datetime
from pygame import mixer
root = Tk()
root.title('omkar Alarm-Clock')
def setalarm():
alarmtime=f"{hrs.get()}:{mins.get()}:{secs.get()}"
print(alarmtime)
if(alarmtime!="::"):
alarmclock(alarmtime)
def alarmclock(alarmtime):
while True:
time.sleep(1)
time_now=datetime.datetime.now().strftime("%H:%M:%S")
print(time_now)
if time_now==alarmtime:
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text="Wake up!Wake up!Wake up",bg="DodgerBlue2",fg="white").grid(row=6,columnspan=3)
print("wake up!")
mixer.init()
mixer.music.load(r'C:\Users\omkar.k.PC\downloads\thenokiatune.mp3')
mixer.music.play()
break
hrs=StringVar()
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hrbtn.grid(row=2,column=1)
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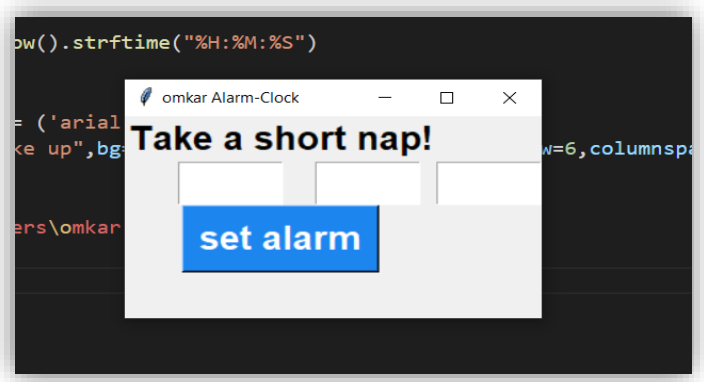
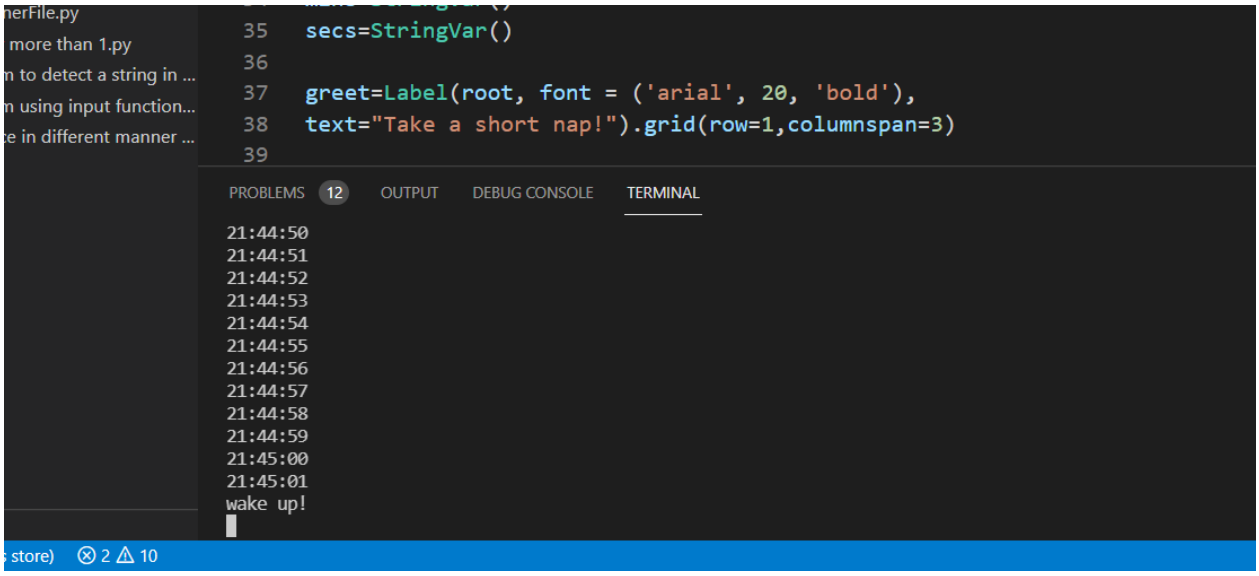
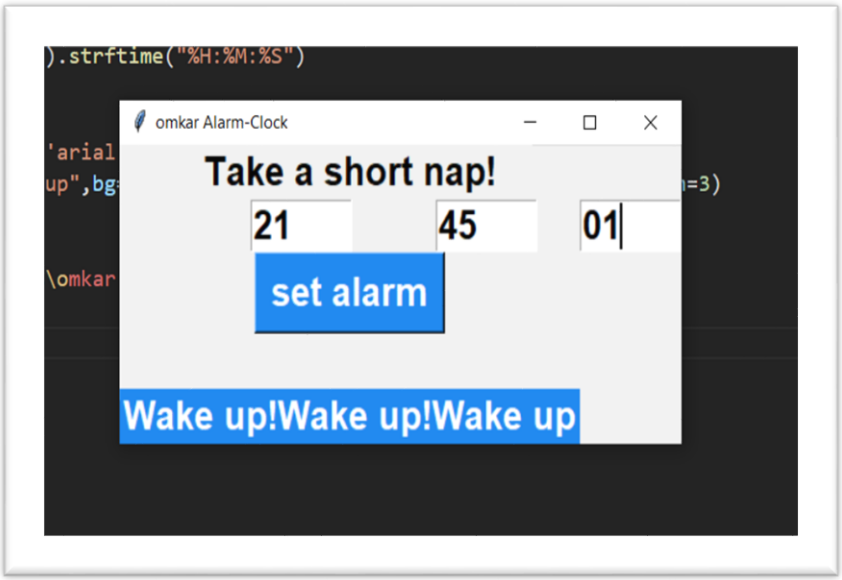
secbtn=Entry(root,textvariable=secs,
width=5,font = ('arial', 20, 'bold')).grid(row=2,column=3)
setbtn=Button(root,text="set alarm",command=setalarm,bg="DodgerBlue2",
fg="white",font = ('arial', 20, 'bold')).grid(row=4,columnspan=3)
timeleft = Label(root,font=('arial', 20, 'bold'))
timeleft.grid()
mainloop()

Output


omkar Alarm-Clock
Take a short nap!
set alarm


secs=StringVar()
greet=Label(root, font = ('arial', 20, 'bold'),
text="Take a short nap!").grid(row=1,columnspan=3)
PROBLEMS 12
OUTPUT
DEBUG CONSOLE
TERMINAL
21:44:50
21:44:51
21:44:52
21:44:53
21:44:54
21:44:55
21:44:56
21:44:57
21:44:58
21:44:59
21:45:00
21:45:01
wake up!


omkar Alarm-Clock
Take a short nap!
21
45
01
set alarm
Wake up!Wake up!Wake up

Conclusions:-

It's hope that this document will be of huge help with understanding of my little project as we have used a different approach which has proved beneficial for us and easy for us to understand the vast ocean that is python programming .I had reached the maximum accuracy of 95% after data cleaning but I will work forward to increase this accuracy little by little.

References :-

*I use python compailer :-
https://www.python.org/downloads/

*RUN code at

Visual studio code :-
https://visualstudio.microsoft.com/downloads/

*I took tkinker Information from

GEEKSFORGREEKS :-
https://www.geeksforgeeks.org/introduction-to-tkinter/

*I took images from

IMGUR :-https://imgur.com/NxsFAB1

*I took information of GUI INTRFACE from

PYTHONGEEKS :-https://pythongeeks.org/gui-programming-in-python/