**ALARM CLOCK USING TKINTER**

A PROJECT REPORT

*Submitted by,*

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ABSTRACT

In this project we have to implement an alarm clock using Python. Python consists of some very innovative libraries such as datetime and tkinter which help us to build the project using the current date and time as well as to provide a user interface to set the alarm according to the requirement in 12-hour format.

SOURCE CODE

from tkinter.ttk import\*

from tkinter import\*

from tkinter import messagebox

import datetime

import winsound

window=Tk()

window.title("Alarm Clock")

window.geometry("350x150")

frameline=Frame(window,width=400,height=5,bg="#98FF98").grid(row=0,column=0)

framebody=Frame(window,width=400,height=290,bg="white").grid(row=1,column=0)

img=PhotoImage(file="./clock.png")

l1=Label(framebody,image=img,height=100,bg="white")

l1.place(x=10,y=10)

name=Label(framebody,text="Alarm",height=1,font="Ivy 18 bold",fg="black",bg="white")

name.place(x=125,y=10)

def alarm():

if(c\_period.get()=="AM"):

x=int(c\_hour.get())

y=int(c\_min.get())

z=int(c\_sec.get())

if(c\_period.get()=="PM"):

x=int(c\_hour.get())+12

y=int(c\_min.get())

z=int(c\_sec.get())

messagebox.showinfo("notification","alarm has been set")

while(True):

if(x==datetime.datetime.now().hour and y==datetime.datetime.now().minute and z==datetime.datetime.now().second):

for i in range(0,100):

winsound.Beep(1000,100)

messagebox.showinfo("notification","WAKE UP")

break

hour=Label(framebody,text="hour",height=1,font="Ivy 10 bold",fg="blue",bg="white")

hour.place(x=127,y=40)

c\_hour=Combobox(framebody,width=2,font="Arial 15")

c\_hour['values']=("00","01","02","03","04","05","06","07","08","09","10","11","12")

c\_hour.current(0)

c\_hour.place(x=130,y=58)

min=Label(framebody,text="min",height=1,font="Ivy 10 bold",fg="blue",bg="white")

min.place(x=177,y=40)

c\_min=Combobox(framebody,width=2,font="Arial 15")

c\_min['values']=("00","01","02","03","04","05","06","07","08","09","10","11","12","13","14","15","16","17","18","19","20","21","22","23","24","25","26","27","28","29","30","31","32","33","34","35","36","37","38","39","40","41","42","43","44","45","46","47","48","49","50","51","52","53","54","55","56","57","58","59")

c\_min.current(0)

c\_min.place(x=180,y=58)

sec=Label(framebody,text="sec",height=1,font="Ivy 10 bold",fg="blue",bg="white")

sec.place(x=227,y=40)

c\_sec=Combobox(framebody,width=2,font="Arial 15")

c\_sec['values']=("00","01","02","03","04","05","06","07","08","09","10","11","12","13","14","15","16","17","18","19","20","21","22","23","24","25","26","27","28","29","30","31","32","33","34","35","36","37","38","39","40","41","42","43","44","45","46","47","48","49","50","51","52","53","54","55","56","57","58","59")

c\_sec.current(0)

c\_sec.place(x=230,y=58)

period=Label(framebody,text="period",height=1,font="Ivy 10 bold",fg="blue",bg="white")

period.place(x=277,y=40)

c\_period=Combobox(framebody,width=3,font="Arial 15")

c\_period['values']=("AM","PM")

c\_period.current(0)

c\_period.place(x=280,y=58)

set=Button(framebody,text="Set Alarm",height=2,font="Arial 10",fg="red",bg="white",command=alarm)

set.place(x=220,y=100)

window.mainloop()

SCREENSHOTS



