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ALARM CLOCK BY USING PYTHON

This **Python Alarm Clock** also includes a downloadable **Python Alarm Clock Code** for free. To start creating this simple project **Alarm Clock Using Python**, make sure that you have **Pycharm IDE** installed on your computer.

How To Make a Simple Alarm Clock in Python:

Code Explanation

1. The Code Given Below Is For Importing Modules Code:

Explain

```
from tkinter import *
import datetime
import time
import winsound
```

Explanation:

In the given code which is importing all modules that are being called in executing the program.

2. The Code Given Below Is For The Module Actual Time Code:

```
def actual_time():
    set_alarm_timer = f"{hour.get()}:{min.get()}:{sec.get()}"
    alarm(set_alarm_timer)
```

Explanation:

In this module which is the actual or the current time that is being called when setting the alarm.

3. The Code Given Below Is For The Module Of Setting The Alarm Code:

```
Explain
```

```
def alarm(set_alarm_timer):
    while True:
```

```
time.sleep(1)
current_time = datetime.datetime.now()
now = current_time.strftime("%H:%M:%S")
date = current_time.strftime("%d/%m/%Y")
print("The Set Date is:",date)
print(now)
if now == set_alarm_timer:
    print("Time to Wake up")
    winsound.PlaySound("sound.mp3",winsound.SND_ASYNC)
    break
```

Explanation:

In this module which is the setting of alarm that is being executed.

4. The Code Given Below Is For The GUI Code:

```
Explain
clock = Tk()
clock.title("DataFlair Alarm Clock")
clock.geometry("400x200")
time format=Label(clock, text= "Enter time in 24 hour format!",
fg="red",bg="black",font="Arial").place(x=60,y=120)
addTime = Label(clock,text = "Hour Min Sec",font=60).place(x = 110)
setYourAlarm = Label(clock,text = "When to wake you
up",fg="blue",relief =
"solid", font=("Helevetica", 7, "bold")).place(x=0, y=29)
# The Variables we require to set the alarm(initialization):
hour = StringVar()
min = StringVar()
sec = StringVar()
#Time required to set the alarm clock:
hourTime= Entry(clock,textvariable = hour,bg = "pink",width =
15).place(x=110, y=30)
minTime= Entry(clock,textvariable = min,bg = "pink",width =
15).place(x=150, y=30)
secTime = Entry(clock,textvariable = sec,bg = "pink",width =
15).place(x=200,y=30)
#To take the time input by user:
```

```
submit = Button(clock,text = "Set Alarm",fg="red",width = 10,command =
actual time).place(x = 110, y = 70)
clock.mainloop()
#Execution of the window.
```

Explanation:

In this module which is the design or the graphical user interface or (GUI) of this project.

Complete Source Code

```
Explain
#Importing all the necessary libraries to form the alarm clock:
from tkinter import *
import datetime
import time
import winsound
def alarm(set alarm timer):
    while True:
        time.sleep(1)
        current time = datetime.datetime.now()
        now = current time.strftime("%H:%M:%S")
        date = current time.strftime("%d/%m/%Y")
        print("The Set Date is:",date)
        print(now)
        if now == set alarm timer:
            print("Time to Wake up")
            winsound.PlaySound("sound.mp3", winsound.SND ASYNC)
            break
def actual time():
    set_alarm_timer = f"{hour.get()}:{min.get()}:{sec.get()}"
    alarm(set alarm timer)
clock = Tk()
clock.title("DataFlair Alarm Clock")
clock.geometry("400x200")
time_format=Label(clock, text= "Enter time in 24 hour format!",
```

```
fg="red",bg="black",font="Arial").place(x=60,y=120)
addTime = Label(clock,text = "Hour Min Sec",font=60).place(x = 110)
setYourAlarm = Label(clock,text = "When to wake you
up",fg="blue",relief =
"solid", font=("Helevetica", 7, "bold")).place(x=0, y=29)
# The Variables we require to set the alarm(initialization):
hour = StringVar()
min = StringVar()
sec = StringVar()
#Time required to set the alarm clock:
hourTime= Entry(clock,textvariable = hour,bg = "pink",width =
15).place(x=110, y=30)
minTime= Entry(clock,textvariable = min,bg = "pink",width =
15).place(x=150, y=30)
secTime = Entry(clock,textvariable = sec,bg = "pink",width =
15).place(x=200, y=30)
#To take the time input by user:
submit = Button(clock,text = "Set Alarm",fg="red",width = 10,command =
actual time).place(x = 110, y = 70)
clock.mainloop()
#Execution of the window.
```