## My project

### Name of project: -

Train time table screen with digital clock and announcement

Use: -

It is use to display the time ,date and train schedule along with announcement on train station .

## Library file use in project

- 1.- from tkinter import \*
- 2.-import datetime
- 3.- import pyttsx3

## Function use in my project

- 1.- engine = pyttsx3.init('sapi5')
- 2.-voices = engine.getProperty('voices')
- 3.-rate = engine.getProperty("rate")
- 4.-engine.setProperty('voice', voices[id number].id)
- 5.-engine.setProperty('rate',90)
- 6.-engine.setProperty('voice',1)
- 7.-engine.say(voices)
- 8.-engine.runAndWait()
- 9.-hour = int(datetime.datetime.now().hour)

```
10.-time =datetime.datetime.now()
Project -|||
                                                   page no. -71
11.-mint = int(time.strftime('%M'))
12.-hr=time.strftime('%l')
13.-mi=time.strftime('%M')
14.-sec=time.strftime('%S')
15.-am=time.strftime("%p")
16.-date=time.strftime("%d")
17.-month=time.strftime("%m")
18.-year=time.strftime("%y")
19.-day=time.strftime("%a")
20.- lab_hr.config(text)
21.-clock = Tk()
22.-clock.mainloop()
23.-clock.title(' DIGITAL CLOCK BY OM KUMAR PRIY')
24.-clock.geometry( with X Hight)
25.-clock.config(bg='yellow')
26.-lab_hr=Label(clock,text="....",font=('TimeNew
     Roman',40,"bold"), bg='red',fg="white")
27.-lab_hr.place(x=120,y=60,height=60,width=100)
```

## What it does?

It is a screen which display the time in hour minute second with AM/PM date month year day along with

train schedule in train sequel it includes train number, train name, train time, and platform number.

And second main function is it announced about the train and train schedule when needed.

## Project creation process.

#### Step -1:

Install and import all module listed above.

#### Step -2:

Set desktop voice with the help of "getproperty()" and set property()

Set rate, voice, speed of voice, volume and quality.

#### Step -3:

We made a function called speak(). Now, we will write our speak() function to convert our text to speech.

Using pyttsx3.init('sapi5').say(VAR\_name).

#### Step -4:

Create screen

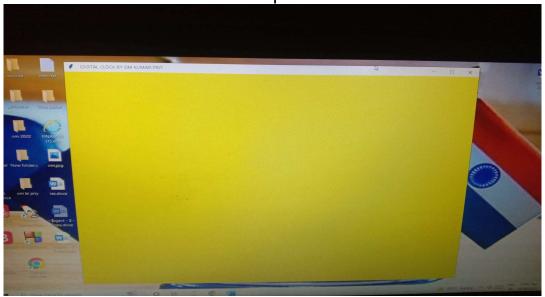
Call TK() to create the screen and pass the with and Hight as parameter like this "TK().geometry('1000x750')",

Then choose background colure as "TK().config(bg='yellow')".

Project -||| page no. -73

Using for title "clock.title('DIGITAL CLOCK BY OM KUMAR PRIY')". End with "TK().mainloop()".

Here screen will be created. & output is below.



# Step -4: Define and make "datetime ()" def date\_time():

hour = int(datetime.datetime.now().hour)

time =datetime.datetime.now()

mint = int(time.strftime('%M'))

hr=time.strftime('%I')

mi=time.strftime('%M')

sec=time.strftime('%S')

am=time.strftime("%p")

date=time.strftime("%d")

month=time.strftime("%m")

```
year=time.strftime("%y")
  day=time.strftime("%a")
                                                           page no. -74
Project -|||
it gives the value of all variable like hour, minute, second, AM/PM
,date month, year, day.
Step -5:
Now define and make "config(text)" inside "datetime ()"
  lab hr.config(text=hr)
  lab_min.config(text=mi)
  lab_sec.config(text=sec)
  lab_am.config(text=am)
  lab_date.config(text=date)
  lab_mon.config(text=month)
  lab_yr.config(text=year)
  lab_wk.config(text=day)
It all function help to update text value on Label function.
Step -6:
Now call predefine function "var_name.after(200,date_time)" inside
"datetime ()".
It is use to update the vale after a certain time period.
Step -7:
Now call predefine function "label() and place()"
```

lab hr=Label(clock,text="00",font=('Time New Roman',60,"bold"),

 $bg='red',fg="white") \\ lab\_hr.place(x=120,y=50,height=110, width=100) \\ Project-||| \\ page no. -75$ 

Lable() function is use for display text and place () is use for create

overlap screen with height and width, output below.



Step -8:

Repeat step 7 many time accordingly with different coordinate .





#### Step -9:

Now called "wishme()" inside "datetime ()"
And define out side it ,
it has
hour = int(datetime.datetime.now().hour)
time =datetime.datetime.now()

```
mint = int(time.strftime('%M'))
secand=int(time.strftime('%S'))
```

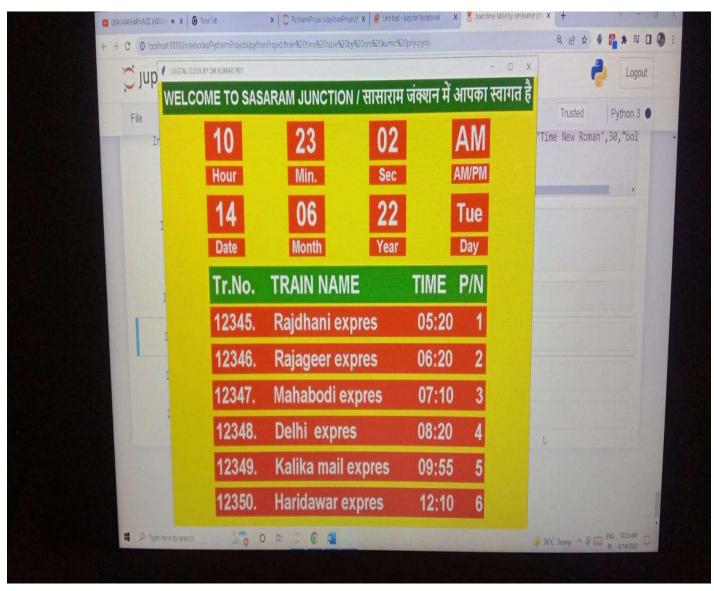
if train tme is match call "call\_..()" function and speak(text), here speak function speal all about the train.

```
Step -10:  
Define call_...() function  
def call_A(a):  
lab_a=Label(clock,text="12345. Rajdhani expres 05:20  
1",font=('Time New Roman',28,"bold"), bg='red',fg="white")  
Project -|||  
page no. -77  
lab_a.place(x=120,y=z,height=50,width=760)
```

it is use to display one time table of the train.

#### Step -11:

If there are many train time match in side wishme() then repeat step 9 and 10.



#### Limitation

- It is use only single railway station.
- It needed proper internet connection.
- lt uses high quality speaker and connecting system

#### **Future Plan**

▶ We can make all type of function depends on time.

#### Precaution

- ► Coordinate must be correct.
- ► All library file must be, which mansion above.
- ► Good internet connection.

#### Useful resource

- ► WWW/javatpoint.come
- ► WWW/geeksforgeeks.come
- ► WWW/tutorialpoint.com.come
- ➤ WWW/codewithhary.come
- ► WWW/youtub//tutorialpoint.com.come
- ► WWW/youtub//codewithhary.come
- ► WWW/youtub//lovebaber.come

Project -||| page no. -79

## PPT on my project



