timesheet calculator

Choose the xlrd, xlwt, and tkinter modules in Python

```
import xlrd
import xlwt
import tkinter as tk
```

```
def create_table():
    workbook = xlwt.Workbook(encoding= 'ascii')
    worksheet = workbook.add_sheet("Sheet1")
    worksheet.write(0,0, "Name")
    worksheet.write(0,1, "Department/Proffesion")
    for i in range(31):
        worksheet.write(0,2+i,str(i+1)+' day')
        worksheet.write(0,33, "Days/hours from 1 to 15")
        worksheet.write(0,34, "Day/hours from 1 to 31")
        workbook.save("timesheet_input.xls")
```

The following timesheet is used as input:(timesheet input.xls)

4	Α	В	С	D	E	F	G	H	1	J	K	L	M	N	0	Р	
1	Name	Department/Proffesion	1 day	2 day	3 day	4 day	5 day	6 day	7 day	8 day	9 day	10 day	11 day	12 day	13 day	14 day	1
2	Α	Ш_Тр	0	0													
3	В	Щ_Тр			0	0	0										
4	C	H_Tp						0	0	0	0						
5	D	K_Tp								0		0	0	0	0	0	
6	Е	M_Tp														0	
7	F	C_0				0		0									
8	G	Ш_1_0															
9	Н	Ш_2_0		0		0				0						0	
10																	
11																	
12																	

Create dictionary:

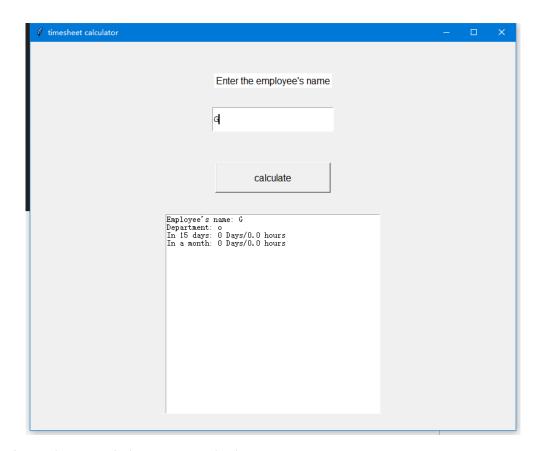
Function, calculate:

```
def get_result(row):
    name = datasheet.cell_value(row,0)
    pos = datasheet.cell_value(row,1)
    rowdata=datasheet.row_values(row,2,33)
    rate = part_time[pos]
    dep = department[pos]
    day15 = 0
    day31 = 0
    for i in range(15):
         if rowdata[i]=='0':
              day15+=1
    for j in range(31):
         if rowdata[j]=='0':
              day31+=1
    result = ('Employee\'s name: ' + str(name) + '\n'
                 'Department: ' + str(dep) + '\n'
'In 15 days: ' + str(day15) + ' Days' + '/' + str(rate*day15*8) + ' hours' + '\n'
'In a month: ' + str(day31) + ' Days' + '/' + str(rate*day31*8) + ' hours')
    return result
```

Use Python Tkinter to build a GUI:

```
Use Python Tkinter to build a GUI
    window=tk.Tk()
    window.title('timesheet calculator')
    window.geometry('800x640')
    text = tk.StringVar()
    entry = tk.Entry(window,textvariable=text)
    title = tk.Label(window,text='Enter the employee\'s name',bg='white',font=('Arial', 12))
    title.place(relx=0.5,rely=0.1,anchor="center")
    text.set('')
    entry.place(relx=0.5,rely=0.2,anchor="center",height=40,width=200)
    def printEntry():
        var= show_result(text.get())
        t.delete("1.0", "end")
t.insert('end', var)
    button = tk.Button(window,text='calculate',command=printEntry,height=2,width=20,font=('Arial', 12))
    button.place(relx=0.5,rely=0.35,anchor="center")
    t = tk.Text(width=50, height=25)
    t.place(relx=0.5,rely=0.7,anchor="center")
    window.mainloop()
```

Running result:



When the result is not queried:

