**Practical No.09**

1. **Write the program for the following:**

**a. Try to configure the widget with various options like: bg=”red”, family=”times”,**

**size=18 .**

**CODE:**

from tkinter import \*

from math import factorial

win = Tk()

win.title("widgett.window")

win.geometry("400x500")

l0= Label(win,text='Factorial Calculator',bg='lightblue',font=('times',20))

l0.pack(pady=10)

def fact():

try:

nm=int(ety.get())

res=factorial(nm)

res\_label.config(text=f'factorial of {nm} is {res}')

except ValueError:

res\_label.config(text='enter valid number')

l1=Label(win,text='enter the number :',font=('times',20))

l1.pack()

ety = Entry(win,font=('times',10))

ety.pack(pady=20)

btn=Button(win,text='Calculate\_Factorial',bg='lightblue',font=('times',20),command=fact)

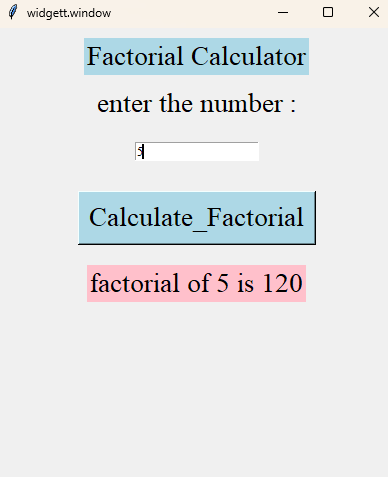
btn.pack(pady=10)

res\_label=Label(win,text="",bg='pink',font=('times',20))

res\_label.pack(pady=10)

win.mainloop()

**OUTPUT:**



**b. Try to change the widget type and configuration options to experiment with**

**other widget types like Message, Button, Entry, Checkbutton, Radiobutton, Scale**

**etc.**

**CODE:**

from tkinter import \*

from tkinter import messagebox

def submit\_form():

nm=ety\_nm.get()

ag=scale\_age.get()

gender=gender\_var.get()

if not nm:

messagebox.showwarning('input Error','please enter valid name')

else:

messagebox.showinfo('form submited',f'Name: {nm}\nAge: {ag}\nGender: {gender}\nSubscribe to anime\_web !')

win = Tk()

win.title("Registration Form")

win.geometry("500x500")

msg=Message(win,text='Fill out the form below:',width=500,font=('times',10),bg='pink')

msg.pack(pady=10)

l\_nm=Label(win,text='Name:',font=('times',10))

l\_nm.pack(pady=10)

ety\_nm=Entry(win,font=('times',10))

ety\_nm.pack()

l\_ag=Label(win,text='Age:',font=('times',10))

l\_ag.pack(pady=10)

scale\_age=Scale(win,from\_=10,to=100,orient='horizontal',font=('times',10))

scale\_age.pack(pady=10)

gender=Label(win,text='Gender:',font=('times',10))

gender.pack(pady=10)

gender\_var=StringVar(value='male')

rm=Radiobutton(win,text='male',variable=gender\_var,value='male',font=('times',10))

rf=Radiobutton(win,text='female',variable=gender\_var,value='female',font=('times',10))

rm.pack()

rf.pack()

nl=IntVar()

chk\_nl=Checkbutton(win,text='subscribe to anime\_web',variable=nl,font=('times',19),bg='orange',fg='white')

chk\_nl.pack(pady=10)

s\_btn=Button(win,text='Submit',command=submit\_form,font=('times',19),bg='blue',fg='white')

s\_btn.pack(pady=10)

win.mainloop()

**OUTPUT:**

