```python
In [1]:  from tkinter import *
         import tkinter.messagebox as tm
         import csv
         from os import path

         # Sample GUI
         window = Tk()
         window.title('Sample GUI')

         txtName = StringVar()

         Label(window, text = "Name please").grid(row = 0, column = 0)
         Button(window, text = 'click me').grid(row = 1, column = 0)

         Entry(window, textvariable = txtName).grid(row = 0, column= 1)
         window.mainloop()
```

```python
In [4]:  from tkinter import *
         import tkinter.messagebox as tm
         import csv
         from os import path

         def on_print():
             print(chk1.get())
             print(chk2.get())
             print(chk3.get())

         # Sample Checkbox
         window = Tk()
         chk1, chk2, chk3 = [StringVar() for _ in range(3)]

         Checkbutton(window, variable = chk1, text = 'Math', onvalue = 'Math' ).grid(row = 0, column = 0)
         Checkbutton(window, variable = chk2, text = 'Science', onvalue = 'Science' ).grid(row = 0, column = 1)
         Checkbutton(window, variable = chk3, text = 'English' , onvalue = 'English').grid(row = 0, column = 2)

         Button(window, text = 'print', command = on_print ).grid(row = 3, column = 1)

         window.mainloop()
```

```
Math
Science
English
0
0
English
0
0
0
Math
Science
English
```

In [7]:
```python
from tkinter import *
import tkinter.messagebox as tm
import csv
from os import path

def on_print():
    print(rbt.get())

# Sample Radio Button
window = Tk()
rbt = StringVar()

Radiobutton(window, text='BSIT', variable=rbt, value='BSIT').grid(row=0, column=0)
Radiobutton(window, text='CS', variable=rbt, value='CS').grid(row=0, column=1)
Radiobutton(window, text='IS', variable=rbt, value='IS').grid(row=0, column=2)

rbt.set('BSIT')

Button(window, text='print', command=on_print).grid(row=3, column=1)

window.mainloop()
```

```python
from tkinter import *
import tkinter.messagebox as tm
my_window=Tk()
my_window.title('Gui demo')

def on_click():
    try:
        name=txtName.get()
        greet='Hello '+name
        lblName.set(greet)
    except Exception as z:
        tm.showerror('Error',z)

def on_clear():
    txtName.set(' ')
    lblName.set(' ')

def on_close():
    ans=tm.askyesno('Close','Are you sure?')
    if ans==1:
        my_window.destroy()

#define components
txtName=StringVar()
lblName=StringVar()

Label(my_window,text='Name please').grid(row=0,column=0)
Entry(my_window,textvariable=txtName,width=20,border=3).grid(row=0,column=1)
Label(my_window,textvariable=lblName).grid(row=1,column=0)
Button(my_window,text='Click me',command=on_click,width=10).grid(row=2,column=0)
Button(my_window,text='Clear',width=10,command=on_clear).grid(row=2,column=1)
Button(my_window,text='Close',width=10,command=on_close).grid(row=2,column=2)


my_window.mainloop()
```

```
Exception in Tkinter callback
Traceback (most recent call last):
  File "/home/agustin/anaconda3/lib/python3.11/tkinter/__init__.py", line 1948, in __call__
    return self.func(*args)
           ^^^^^^^^^^^^^^^^
  File "/tmp/ipykernel_1660/491383157.py", line 19, in on_close
    ans=tm.askyesno('Close','Are you sure?')
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/agustin/anaconda3/lib/python3.11/tkinter/messagebox.py", line 114, in askyesno
    s = _show(title, message, QUESTION, YESNO, **options)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/agustin/anaconda3/lib/python3.11/tkinter/messagebox.py", line 76, in _show
    res = Message(**options).show()
          ^^^^^^^^^^^^^^^^^^^^^^^^
  File "/home/agustin/anaconda3/lib/python3.11/tkinter/commondialog.py", line 45, in show
    s = master.tk.call(self.command, *master._options(self.options))
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
_tkinter.TclError: can't invoke "grab" command: application has been destroyed
```

```python
#using columnspan
from tkinter import *
my_window=Tk()
my_window.title('Gui demo')

txtName=StringVar()


Entry(my_window,textvariable=txtName,width=30,border=3).grid(row=0,column=0,columnspan=3)
Entry(my_window,textvariable=txtName,width=10,border=3).grid(row=1,column=0)
Entry(my_window,textvariable=txtName,width=10,border=3).grid(row=1,column=1)
Entry(my_window,textvariable=txtName,width=10,border=3).grid(row=1,column=2)
my_window.mainloop()
```

```python
from tkinter import *
import tkinter.messagebox as tm
my_window=Tk()
my_window.title('Gui demo')

def on_click():
    try:
        score=txtScore.get()
        items=txtItems.get()
        tg=int(score) * 50/int(items) +50
        txtTG.set(tg)
    except Exception as z:
        tm.showerror('Error',z)

def on_clear():
    txtScore.set(' ')
    txtItems.set(' ')
    txtTG.set(' ')
def on_close():
    ans=tm.askyesno('Close','Are you sure?')
    if ans==1:
        my_window.destroy()

#define components
# txtScore, txtItems, txtTG, lblName = [StringVar() for _ in range(4)]
txtScore=StringVar()
txtItems=StringVar()
txtTG=StringVar()
lblName=StringVar()

Label(my_window,text='Score: ').grid(row=0,column=0)
Entry(my_window,textvariable=txtScore,width=20,border=3).grid(row=0,column=1)
Label(my_window,text='Number of Items: ').grid(row=1,column=0)
Entry(my_window,textvariable=txtItems,width=20,border=3).grid(row=1,column=1)
Label(my_window,text='Transmutated Grade: ').grid(row=2,column=0)
Entry(my_window,textvariable=txtTG,width=20,border=3,state='disabled').grid(row=2,column=1)
Button(my_window,text='Compute',command=on_click,width=10).grid(row=3,column=0)
Button(my_window,text='Clear',width=10,command=on_clear).grid(row=3,column=1)
Button(my_window,text='Close',width=10,command=on_close).grid(row=3,column=2)


my_window.mainloop()
```