“HomeWork16” Justin Minsk

1.

from tkinter import \*  
  
  
class Goodbye:  
  
 def \_\_init\_\_(self):  
 pass  
  
 def main\_frame(self, master):  
 Button(master, text='Goodbye', command=quit).pack()  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 master = Tk()  
 app = Goodbye()  
 app.main\_frame(master)  
 master.mainloop()

4.

from tkinter import \*  
  
  
class DNACounter:  
  
 def \_\_init\_\_(self):  
 pass  
  
 def main\_frame(self, master):  
 text = Text(master)  
 text.pack()  
 var\_text = StringVar()  
  
 def count(text, var):  
 str\_text = text.get('0.0', END)  
 A = 0  
 T = 0  
 C = 0  
 G = 0  
 for char in str\_text:  
 if 'A' in char:  
 A += 1  
 elif 'T' in char:  
 T += 1  
 elif 'C' in char:  
 C += 1  
 elif 'G' in char:  
 G += 1  
 var.set('Num As: {0} \t Num Ts: {1} \t Num Cs: {2} \t Num Gs: {3}'.format(A, T, C, G))  
  
 Button(master, text='Count', command=lambda: count(text, var\_text)).pack()  
 Label(master, textvar=var\_text).pack()  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 master = Tk()  
 app = DNACounter()  
 app.main\_frame(master)  
 master.mainloop()

5.

from tkinter import \*  
  
  
class TempConverter:  
  
 def \_\_init\_\_(self):  
 pass  
  
 def main\_frame(self, master):  
  
 def convert\_to\_Fahrenheit(fahrenheit, var):  
 num = fahrenheit.get()  
 end\_num = (num - 32.0) \* 5.0 / 9.0  
 var.set('{:0.1f}'.format(end\_num))  
  
 var\_int = DoubleVar()  
 var\_text = StringVar()  
 print(var\_text)  
 Label(master, text='Temperature in Fahrenheit:').pack()  
 Entry(master, textvar=var\_int).pack()  
 Label(master, textvar=var\_text).pack()  
 Button(master, text='Convert', command=lambda: convert\_to\_Fahrenheit(var\_int, var\_text)).pack()  
 Button(master, text='Quit', command=quit).pack()  
  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 master = Tk()  
 app = TempConverter()  
 app.main\_frame(master)  
 master.mainloop()