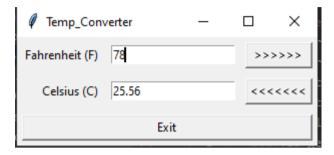
Project #3: Temperature Conversion GUI

Source Code

```
def convert_fahr():
   words = fbtext.get()
   ftemp = float(words)
   celbox.delete(0, END)
   celbox.insert(0, '%.2f' % (tocel(ftemp)))
   return
def convert_cel():
   words = cbtext.get()
   ctemp = float(words)
   fahrbox.delete(0, END)
   fahrbox.insert(0, '%.2f' % (tofahr(ctemp)))
def tocel(fahr):
   return (fahr-32) * 5.0 / 9.0
#Fahr Conversion Fornular
def tofahr(cel):
app = Tk()
app.title('Temp_Converter')
fahrlabel = Label(app, text = 'Fahrenheit (F)')
fahrlabel.grid(row = 0, column = 0, padx = 5, pady = 5, sticky = E)
cellabel = Label(app, text = ' Celsius (C)')
cellabel.grid(row = 1, column = 0, padx = 5, pady = 5, sticky = E)
fbtext = StringVar()
fbtext.set('')
fahrbox = Entry(app, textvariable=fbtext)
fahrbox.grid(row = 0, column = 1, padx = 5, pady = 5)
cbtext = StringVar()
cbtext.set('')
celbox = Entry(app, textvariable=cbtext)
BTNfgo = Button(app, text = '>>>>>', command = convert_fahr)
BTNfgo.grid(row = 0, column = 2, padx = 5, pady = 5, sticky = N+S+E+W)
BTNcgo = Button(app, text = '<<<<<', command = convert_cel)</pre>
BTNcgo.grid(row = 1, column = 2, padx = 5, pady = 5, sticky = N+S+E+W)
BTNexit = Button(app, text = 'Exit', command = quit)
BTNexit.grid(row = 3, column = 0, padx = 5, pady = 5, sticky = N+S+E+W, columnspar
```

```
app.mainloop()
```

Output Screen



Project #5: Guess the Number Game GUI

The computer guesses a number and the user provides the hints.

Source Code

```
import random
from breezypythongui import EasyFrame
class GuessingGame(EasyFrame):
       EasyFrame. init (self, title="Number Guessing Game")
       self.lowerBound = 1
       self.upperBound = 100
       self.myNumber = (self.lowerBound + self.upperBound) // 2
       guess = "Is my Guess of " + str(self.myNumber) + " Right?"
       self.myLabel = self.addLabel(text=guess, row=0, column=0, sticky="NSEW",
       self.small = self.addButton(text="Too small", row=1, column=0,
command=self.goLarge)
       self.large = self.addButton(text="Too large", row=1, column=1,
command=self.goSmall)
       self.correct = self.addButton(text="Correct", row=1, column=2,
command=self.goCorrect)
       self.newButton = self.addButton(text="New game", row=1, column=3,
command=self.newGame)
   def update(self):
```

```
self.myNumber = (self.lowerBound + self.upperBound) // 2
        guess = "Is my Guess of " + str(self.myNumber) + " Right?"
        self.myLabel['text'] = guess
    # check if the guess is larger than the exact number
    def goLarge(self):
        self.lowerBound = self.myNumber + 1
        self.update()
    def goSmall(self):
        self.upperBound = self.myNumber - 1
        self.update()
    def goCorrect(self):
        self.count += 1
        self.myLabel['text'] = f" Yeah! You guessed it Correct in {self.count}
        self.small["state"] = "disabled"
        self.large["state"] = "disabled"
        self.correct["state"] = "disabled"
    def newGame(self):
        self.upperBound = 100
        self.lowerBound = 1
        self.count = 0
        self.update()
        self.small["state"] = "active"
        self.large["state"] = "active"
        self.correct["state"] = "active"
def main():
    game1 = GuessingGame()
    game1.mainloop()
if __name__ == "__main__":
           main()
    except KeyboardInterrupt:
       print("\nProgram closed.")
```

Output Screens

