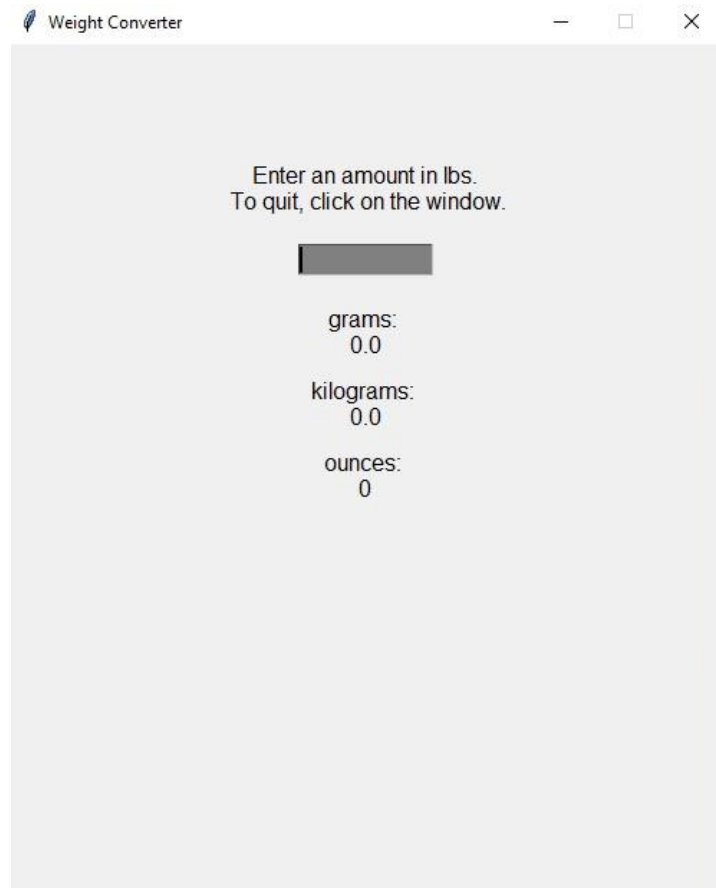


author: Andres Castillo

module: lb.-converter

date: 4.29.19



1. Problem: Convert weight in pounds to grams, kilograms, and ounces.

2. Get exact weight in grams, kilograms, and ounces.

3. Algorithm: 1. Ask the user for weight in pounds

2. Calculate the weight

3. Output the result accordingly

4. write the code:

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```

from graphics import *

def main():
    winW, winH = 500,600
    winCenter = winW // 2
    win = GraphWin("Weight Converter", width=winW,height=winH)

    # create a user input box
    textEntry = Entry(Point(winCenter,150),10)
    textEntry.draw(win)

    messageText = Text(Point(winCenter,100),\
        'Enter an amount in lbs.\n To quit, click on the window.')
    messageText.draw(win)

    fst = 50
    # init objects as empty so delete can happen first
    gramsOutput = Text(Point(winCenter,150+fst), "")
    gramsOutput.draw(win)
    kilogramsOutput = Text(Point(winCenter,200+fst), "")
    kilogramsOutput.draw(win)
    ouncesOutput = Text(Point(winCenter,250+fst), "")
    ouncesOutput.draw(win)

    skip = True

    lastString = ""
    while (win.checkMouse() == None):

```

```
string = textEntry.getText()
```

```
try:
```

```
    lb = float(string)
```

```
except:
```

```
    lb = 0
```

```
if string == lastString:
```

```
    continue;
```

```
kilogramsOutput.undraw()
```

```
gramsOutput.undraw()
```

```
ouncesOutput.undraw()
```

```
lastString = string
```

```
grams = lb * 453.59237
```

```
kilograms = lb * 0.45359237
```

```
ounces = lb * 16
```

```
gramsOutput = Text(Point(winCenter,150+fst), "grams: \n" + str(grams))
```

```
gramsOutput.draw(win)
```

```
kilogramsOutput = Text(Point(winCenter,200+fst), "kilograms: \n" + str(kilograms))
```

```
kilogramsOutput.draw(win)
```

```
ouncesOutput = Text(Point(winCenter,250+fst), "ounces: \n" + str(ounces))
```

```
ouncesOutput.draw(win)
```

```
time.sleep(.25)
```

```
main()
```

5. debug program

6. maintain program: implementing the program will include adding a button to press for conversion to take effect.