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6 STEP

1. Analyze the Problem

This is a program that is a weight converter, that converts pounds(lb) into grams, kilograms, and ounces.

2. Determine Specifications

Input- Enter the number of pounds (lb.)

Process- Converts units by assigning values

Output- pounds is converted into grams, kilograms, ounces

3. Create a Design

-We ask the user to input the mass unit value in pounds which will convert but is stored

-The user enters the amount of lbs. and by using the while loop, if true it converts to grams,kilograms,ounces but if false then it tells the user that it's an invalid entry and please enter a valid number to continue.

- then it prints out the results of the conversation on the graphics

4. Implement the Design –

```
def weightConvert():
```

```
    """
```

```
        Input : enter pounds(lb) to convert into grams,kilograms, ounces
```

```
        Process: Converts the lb into grams, kilograms , ounces
```

```
        Output: The Grams, kilograms and ounces are converted
```

```
    """
```

```
    while True:
```

```
        lb = float(entry1.getText())
```

```
        if lb >= 0:
```

```
            gram = lb * 453.59237
```

```
            entry2.setText(round(gram,2))
```

```
            win.getMouse()
```

```
            kilograms = lb * .45359237
```

```
            entry3.setText(round(kilograms,2))
```

```
            win.getMouse()
```

```
            ounces = lb * 16
```

```
            entry4.setText(round(ounces,2))
```

```
            win.getMouse()
```

```
        print("Gram:",(round(gram,2)))
```

```
        print("Kilograms:",(round(kilograms,2)))
```

```
        print("Ounces:",(round(ounces,2)))
```

else:

```
entry1.setText("INVAILD INPUT,PLEASE enter a NUMBER under the entry.")  
print("INVAILD INPUT,PLEASE enter a NUMBER under the entry.")
```

weightConvert()

5. Test/Debug the Program-

This is how the program looks once you open it, asking user to enter the lb to convert



Weight Converter

lb

Grams

Kilograms

Ounces

Convert

I enter 20lb and it convert each unit in grams, kilograms, ounces



Weight Converter



Weight Converter

lb

Grams

Kilograms

Ounces

Convert



Python 3.7.0 Shell



File Edit Shell Debug Options Window Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

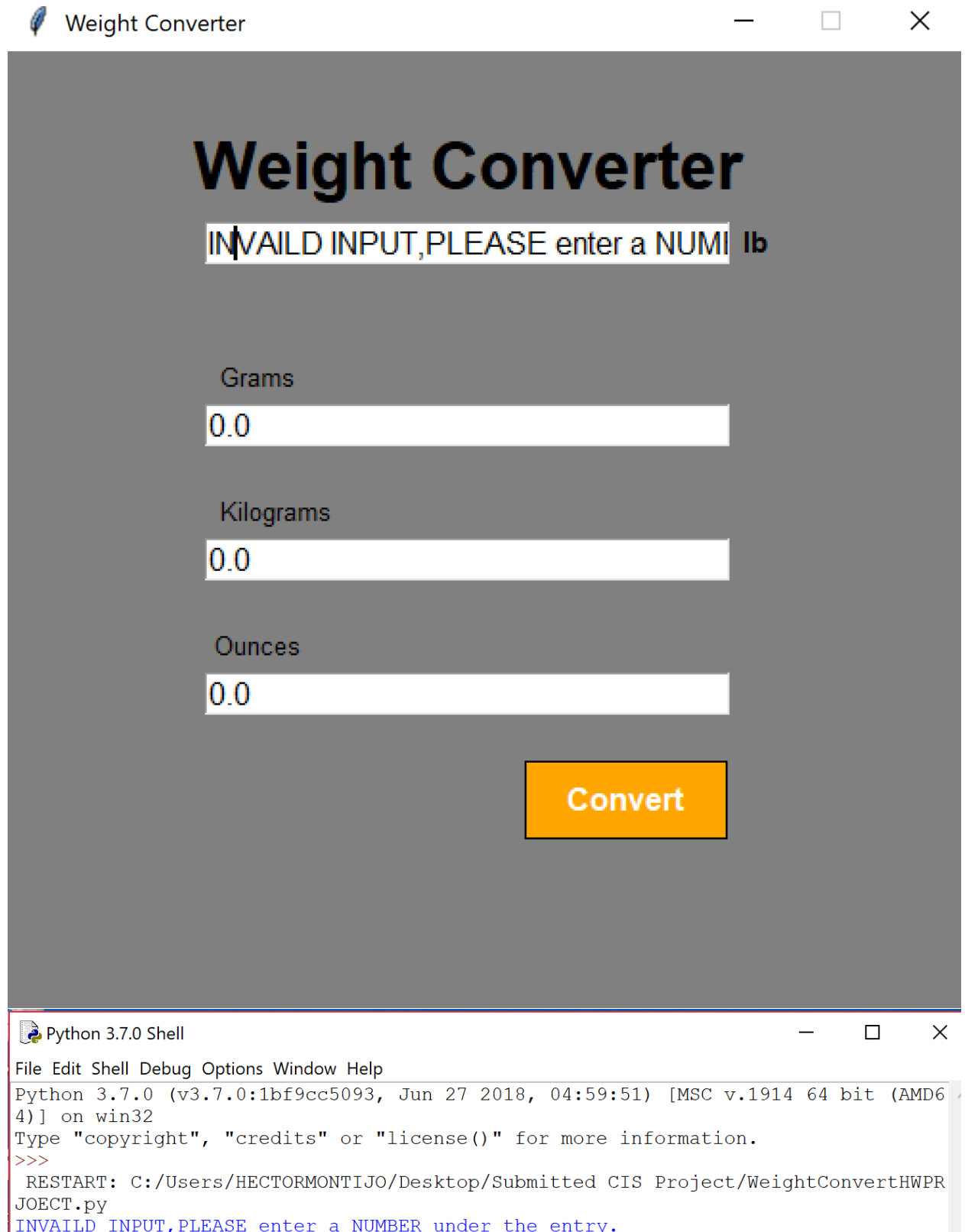
RESTART: C:/Users/HECTORMONTIJO/Desktop/Submitted CIS Project/WeightConvertHWPRJOECT.py |

Gram: 9071.85

Kilograms: 9.07

Ounces: 320.0

-when it's an Invalid input , this pops up and must try again which makes this FALSE



6. Maintain the Program- keep the program up to date and fix the errors.