```
Script started on 2025-06-17 08:32:49-05:00 [TERM="xterm" TTY="/dev/pts/0" COLUMNS=
kn55307@ares:~/Portfolio 1/weighty subject lab$ pwd
/home/students/kn55307/Portfolio 1/weighty subject lab
kn55307@ares:~/Portfolio 1/weighty subject lab$ cat weightysubject.info
Noah Kang
CSC121-001
Welcome Activity
Level 3
This program allows users to input a select amount of ounces to be translated into
weightysubject.cpp:
     1 #include <iostream>
     2 #include <limits>
     3 #include <cmath>
    5 int main() {
            const double OUNCES IN POUND = 16.0;
     6
            std::cout << "\n\t\tWelcome to the Ounce Conversion Program!!!"</pre>
     7
             << std::endl:
     8
     9
    10
            double ounces;
            std::cout << "How many ounces do you have? ";</pre>
    11
            std::cout << "Enter the number of ounces: ";</pre>
   12
   13
            std::cin >> ounces:
            std::cin.iqnore(std::numeric limits<std::streamsize>::max(), '\n');
    14
    15
    16
            double pounds = floorf(ounces / OUNCES IN POUND);
            double ounces remainder = ounces - (pounds * OUNCES IN POUND);
   17
   18
            double pounds total = ounces / OUNCES IN POUND;
            std::cout << "\n\t\t" << ounces << " oz. is equivalent to " << pounds</pre>
   19
            << " lbs. and " << ounces remainder << " oz. (" << pounds total</pre>
              << " lbs.)." << std::endl:
    21
            std::cout << "\n\t\tThank you for using the OCP!!" << std::endl;</pre>
    22
            std::cout << "\n\t\tHave a great day!" << std::endl;</pre>
   23
    24
            return 0;
    25 }
kn55307@ares:~/Portfolio 1/weighty subject lab$ CPP weightysubject
weightysubject.cpp***
weightysubject.cpp: In function 'int
main()':
weightysubject.cpp:16:35: warning:
conversion from 'double'
to 'float' may change value
```

```
double pounds = floorf(ounces /
   OUNCES IN POUND);
kn55307@ares:~/Portfolio 1/weighty subject lab$ ./weightysubject.out
                Welcome to the Ounce Conversion Program!!!
How many ounces do you have? Enter the number of ounces: 64
                64 oz. is equivalent to 4 lbs. and 0 oz. (4 lbs.).
                Thank you for using the OCP!!
                Have a great day!
kn55307@ares:~/Portfolio 1/weighty subject lab$ ./weightysubject.out
                Welcome to the Ounce Conversion Program!!!
How many ounces do you have? Enter the number of ounces: 64 ounces, please!
                64 oz. is equivalent to 4 lbs. and 0 oz. (4 lbs.).
                Thank you for using the OCP!!
                Have a great day!
kn55307@ares:~/Portfolio 1/weighty subject lab$ ./weightysubject.out
                Welcome to the Ounce Conversion Program!!!
How many ounces do you have? Enter the number of ounces: 1283
                1283 oz. is equivalent to 80 lbs. and 3 oz. (80.1875 lbs.).
                Thank you for using the OCP!!
                Have a great day!
kn55307@ares:~/Portfolio 1/weighty subject lab$ cat ws.tpq
cat: ws.tpq: No such file or directory
kn55307@ares:~/Portfolio 1/weighty subject lab$ cat ws.tpg
1. What value is the constant in this program? What [data] type of value is it? What value is the constant in this program?
```

[-Wfloat-conversion]

- A constant named OUNCES IN POUND is defined as a constant double with the value
- 2. What variables do you have in this program? What are their data types?

The double variable ounces represents the number of ounces the user inputs. The

3. How can you get both the decimal total pounds and the whole pounds with remaining

You can create new variables that operate on a single input value without alter

- 4. What happens if the user types a fractional number of ounces to begin with? (I.I The decimal is factored into the remaining ounces value.
- 5. What happens if the user accidentally types a symbol or letter instead of their The program ignores it since it is not a numerical value and sets/keeps ounces

User-Entered Digits TPQs

- 1. If the user's input is potentially followed by garbage (well, textual information where the usual cin >> ounces state to the usua
- 3. Why don't we need/use the string data type in this situation? (Doesn't string all Using a string would require us to convert the string back to a double in order kn55307@ares:~/Portfolio 1/weighty subject lab\$ exit

exit

Script done on 2025-06-17 08:34:11-05:00 [COMMAND EXIT CODE="0"]