CS 112 Assignment 3a

Submit your finished code to the Dropbox. You will need to pass off the assignments with the TA or tutor during their office hours (their information is in the CS 112 Course Information section of the Table of Contents), or the instructor in class. Follow the formatting guide which is also found in the CS 112 Course Information section.

Read the instructions carefully. Make sure your output matches the example run.

Grade a Potato

Everyone loves a good potato. So, let's write a program to select the grade letter of a given potato. (Note that these grades are made up; you may be able to find proper potato weights on the web). The user will enter the weight of the potato, and the grade will be displayed.

1. Less than 200 gms – grade X
2. Greater than or equal to 200 but less than 400 gms – grade A
3. Greater than or equal to 400 but less than 800 gms – grade B
4. Greater than or equal to 800 gms – grade Z

For this assignment, you will receive step by step instructions on how to write the program.

Step 1
Using input() and float() statements, prompt the user for the number of grams the potato weighs and place the input from the user in a variable called potatoWeight.

Step 2
Write an if statement that checks to see if potatoWeight is less than 200 gms.

Step 3
If step 2 is true, use a print() statement to output the grade of the potato (grade X).

Step 4
Use an elif (else if) statement to see if the potatoWeight is greater than or equal to 200 gms but less than 400 gms.

Step 5
If step 4 is true, use a print() statement to output the grade of the potato (grade A)

Step 6
Use an elif (else if) statement to see if the potatoWeight is greater than or equal to 400 gms but less than 800 gms.

Step 7
If step 6 is true, use a print() statement to output the grade of the potato (grade B)

Step 8
Use an else statement and a print() statement to output the grade of the potato (grade Z)

Example Run

In this program we will indicate the grade of a potato based on weight.

Enter the weight of a potato in grams: 199.9
A potato weighing 199.9 grams is a grade X potato.
>>>
======= RESTART: D:/Users/Jeffrey/MyPythonScripts/Assignment 3a-JLL.py =======
In this program we will indicate the grade of a potato based on weight.

Enter the weight of a potato in grams: 576
A potato weighing 576.0 grams is a grade B potato.
>>>
======= RESTART: D:/Users/Jeffrey/MyPythonScripts/Assignment 3a-JLL.py =======
In this program we will indicate the grade of a potato based on weight.

Enter the weight of a potato in grams: 900
A potato weighing 900.0 grams is a grade Z potato.
>>>

BTW: if potatoes had not been discovered yet, an MLM company would have made them a wonder food. Checkout this link at Wikipedia: https://en.wikipedia.org/wiki/Potato#Nutrition