Lab 1

Lab01_Starting.ipynb

1. Write a statement that assigns total_coins with the sum of nickel_count and dime_count. For example, the output for 100 nickels and 200 dimes is 300. **(20%)**

Test Cases

Test Case No	Input	Output
1	100, 200	300
2	0, 340	340
3	15,450	465
Your Test Case		

2. Write a statement that assigns cell_count with cell_count multiplied by 10. * performs multiplication. If the input is 10, the output should be 100. (20%)

Test Cases

Test Case No	Input	Output
1	0	0
2	10	100
3	21	210
Your Test Case		

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3. Write a program that prompts the user for a measurement in meters and then converts it to miles, feet, and inches. **(20%)**

Test Cases

Test Case No	Input	Output
1	0	0.0 meters is 0.00 miles. 0.0 meters is 0.00 feet. 0.0 meters is 0.00 inches.
2	1609.34	1609.34 meters is 1.00 miles. 1609.34 meters is 5279.99 feet. 1609.34 meters is 63359.84 inches.
3	5600	5600.0 meters is 3.48 miles. 5600.0 meters is 18372.70 feet. 5600.0 meters is 220472.44 inches.
Your Test Case		

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4. Write a program to compute how many gallons of paint are needed to cover the walls' given square feet. Assume 1 gallon can cover 350.0 square feet. So gallons = the square feet divided by 350.0. If the input is 250.0, the output should be:0.714285714286. **(20%)**

Test Cases

Test Case No	**Input**	**Output**
1	250	We need 0.71 gallon(s) of paint. or We need 0.714285714286 gallon(s) of paint.
2	350	We need 1.00 gallon(s) of paint. or We need 1.0 gallon(s) of paint.
3	740	We need 2.11 gallon(s) of paint. or We need 1.0 gallon(s) of paint.
Your Test Case		

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5. Write a program that reads a five-digit positive integer and breaks it into a sequence of individual digits. **(20%)** For example, the input 16384 is displayed as

   1 6 3 8 4

Test Cases

Test Case No	Input	Output
1	16384	1 6 3 8 4
2	50000	5 0 0 0 0
3	90389	9 0 3 8 9
Your Test Case		