

WASHINGTON STATE UNIVERSITY VANCOUVER

PROGRAM DESIGN AND DEVELOPMENT - CS 121

Assignment 1

Professor:
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Overall Assignment

In this assignment, each section describes the function(s) that you must create. All of them should be contained within a single python file. Make sure that they all work on the Ubuntu OS in the labs. Your program must be written for Python 3.7+.

1 Miles to Kilometers

Using the template provided, create a function that converts Miles to Kilometers. The input will be some number and your function will return some number. Your function should be defined as follows:

```
def milesToKilo(miles):  
    #Put your code here
```

Fill in the other function to test your new Miles to Kilometer function. This function should take two parameters, `value` and `test`, where `value` is the input to your `milesToKilo` function and `test` is the value you want to compare with. Your function should return true is the converted number returned by `milesToKilo` matches `test`, otherwise false.

```
def milesToKiloTest():  
    #put your code here.
```

2 Built-In Functions

Using the template provided, write a function for each of the following using the built in functions of `abs()`, `round()`, `pow()`, `int()`, and `float()`:

1. Calculate x to the power of 3
2. Convert x to an integer by truncating
3. Convert x to an integer by rounding
4. Take the absolute value of x and convert it to a floating point number.

You must return the result. Below is the format for the first objective in the list.

```
def builtIn1(x):  
    #Put your code here
```

What to turn in (on Autolab):

- assignment1.py