**Scripting**

CW\_KRSIT\_H

Lab Two

Remember-

No curly brackets, indent your code

Functions are declared with **def**

Add a colon after a function

Use # to add comments

Comment your code , explain what each function does, what is its inputs , what is its outputs

Any errors you encountered when creating these programs and subsequently fixed paste them as an error log at the bottom of your code and write a description of why they occurred and how you fixed them.

Call all your methods from the main method and test with an assortment of values

1. Create a new file conversions.py

Add a function poundToKilogram that takes in pounds and returns the amount in kilograms, print the result from main

1 lb = 0.45359237 kg

poundToKilogram(3) should return 1.361

1. Create a function printTime
   1. printTime takes two values , time and timezone,
      1. set a default value of 0 for the timezone parameter
      2. if the user passes in a value for timezone add it to time
      3. time is passed in 24 format and you need to convert it to 12hour
      4. if time(hours) is less than 12 set it to am
      5. if time(hours) is greater than 12, -12 from it and set it to pm
      6. you can cast to int to get just the hours for comparison
   2. printTime(12.36) should print 12.36pm
   3. printTime(16.00,4) should print 8.00pm
   4. printTime(13.15,-3) should print 10.15am
2. create a function distanceInKilometers(miles, hours)
   1. it takes two values miles and time
   2. convert miles to kilometres
   3. 1 mile = 1.609344 km
   4. calculate kilometres per hour by dividing kilometres by time
   5. print the kilometresPerHour, round to one decimal
      1. use **round**(<value> ,1) to round to 1 decimal
   6. Test distance and time with keyword arguments, change the order
   7. distanceInKilometers(miles="12.5",hours="3") should print 6.7kph
   8. distanceInKilometers(hours="4.5", miles="23") should print 8.2kph
3. create a function inchToCentimetre that takes in a variable amount of values in inches
   1. for each value print it out in centimetre
   2. 1in = 2.54cm
   3. inchToCentimetre(2,4,52) should print 5.08cm 10.16cm 132.08cm
   4. inchToCenitimetre(45,23,3,1,2) should print 114.3cm 58.42cm 7.62cm 2.54cm 5.08cm
4. create a lambda function called convertWeight that converts stone to pound
   1. 1st = 14lb
   2. convertWeight(3) should return 42lb

Upload conversions.py to blackboard