

1. Upload the notebook of week one.

2. Sorting a list of random numbers.

Generate a list of 100 random numbers ranged between 0 to 100 and sort them in increasing order based on loops and if conditionals.

Hint:

Creating an empty list: `listname=[]`

Adding elements to a list: `listname.append(element)`

Random number generation: `import random` then `random.randint(0,100)` or `int(random.random()*100)`

3. Write a program which repeatedly reads numbers until the user enters "done". Once "done" is entered, print out the total, count, and average of the numbers. If the user enters anything other than a number, detect their mistake using try and except and print an error message and skip to the next number.

4. Write a program that prompts an input to ask whether to convert from Celsius, Fahrenheit and Kelvin to any other form. Call a function to make the conversion. Once the data is input print out the converted result.

Hint: $TC = (TF - 32) * 5/9$, $TC = TK - 273.15$