

warm up exercise 1

1. **write a program to calculate average bill for a group of people based on input (only for those new to Python)**

- prompt user for the total bill
- prompt user for the total number of people in the group
- output the average amount
- **extra:**
 - validate user's input so only number accepted and integers only for number of people
 - add VAT as an extra input and add it to the total
 - round the output

2. **write a program that will continuously ask user for input**

- terminate input when user type "-999"
- at the end of the input, output the stats:
 - how many numbers total inputted
 - how many are greater than 0
 - how many are less than 0
- **extra:**
 - validate input so only numbers accepted
 - output even and odd numbers separately

exercise 2

1. write a prime checker for any given numbers

- use function(s)
- can check any given numbers
- **extra**: print out all primes that are larger than the given number

2. write a polygon perimeter calculator that outputs the perimeter by accepting the vertices as inputs

- use functions
- use list data structures
- perimeter output in 2 decimal point places for polygons with any number of sides
- **extra**:
 - data input validation (numbers only)
 - catch exceptions (research online how to do so)