Week 3 Coding Challenge

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Exercise 5.1

```
n = float(input("Enter number:"))
```

```
while True:
    n = input("Enter number:")
    all_num = list(n)
    if n == "done":
            break
    else:
        print(sum(all_num))
    continue
print(n)
print(all_num)
```

```
0
0
0
0
0
0
```

```
KeyboardInterrupt: Interrupted by user
```

Actual answer:

```
count = 0
total = 0
while True:
    num_input = input("Enter number:")
    if num_input == "done":
        print("done")
        break
    try:
        num = int(num_input)
        count = count + 1
        total = total + int(num)
    except:
        print("Invalid input")

print(total, count, total/count)
```

```
Invalid input
done
16 3 5.333333333333333
```

```
while True:
    n = [input("Enter number:")]
    if n in n == "done":
        break
```

Exercise 5.2

```
smallest = None
largest = None
count = 0
total = 0
while True:
    num_input = input("Enter number:")
    if num_input == "done":
        print("done")
        break
    try:
        num = int(num_input)
```

```
        if largest == None and smallest == None:
            largest = num
            smaller = num
        if smallest == None or num < smallest:
            smallest = num
        if largest == None or num > largest:
            largest = num
    except:
        print("Invalid input")
    count = count + 1
    total = total + int(num)
    continue

print(f"Minimum: {smallest}, Maximum: {largest}")
```

```
4
5
Invalid input
7
done
Minimum: 4, Maximum: 7
```

```
smallest = None
print('Before:', smallest)
for itervar in [3, 41, 12, 9, 74, 15]:
    if smallest is None or itervar < smallest:
        smallest = itervar
    print('Loop:', itervar, smallest)
print('Smallest:', smallest)

largest = None
print('Before:', largest)
for itervar in [3, 41, 12, 9, 74, 15]:
    if largest is None or itervar > largest :
        largest = itervar
    print('Loop:', itervar, largest)
print('Largest:', largest)
```

Exercise 6.5

```
data = 'X-DSPAM-Confidence: 0.8475'

num_pos = data.find(" ")

num = float(data[num_pos+1:])

print(num)
type(num)
```

```
0.8475
```

```
float
```

Exercise 8.4

```
fhand = open('')
count = 0
for line in fhand:
    count = count + 1
print('Line Count:', count)
```

```
<_io.TextIOWrapper name='py4e.com_code3_romeo.txt' mode='r' encoding='utf-8'>
```

```
AttributeError: '_io.TextIOWrapper' object has no attribute 'split'
```

Exercise 8.5

Exercise 8.6

```
smallest = None
largest = None
count = 0
total = 0
while True:
    num_input = input("Enter number:")
    if num_input == "done":
        print("done")
        break
    try:
        num = int(num_input)
```

```
        print(num)
        if largest == None and smallest == None:
            largest = num
            smaller = num
        if smallest == None or num < smallest:
            smallest = num
        if largest == None or num > largest:
            largest = num
    except:
        print("Invalid input")
    count = count + 1
    total = total + int(num)
    continue

print(smallest, largest)
```

Actual answer:

```
num_list = []
while True:
    number = 0.0
    num_input = input('Enter a number: ')
    if num_input == 'done':
        break
    try:
        number = num_input
    except ValueError:
        print('Invalid input')
        quit()

    num_list.append(num_input)

print('Minimum: ', float(min(num_list)))
print('Maximum: ', float(max(num_list)))
```

```
Minimum:  2.0
Maximum:  9.0
```

```
x = 0
print(x)
```

```
0
```