In [7]:
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# DSC 510
# Week 6
# Programming Assignment Week 6
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# 01/23/2022


print('''This program accepts temperature input(s) and returns the
highest, lowest, and total number of temperatures entered.\n''')
temperatures = []
temps = 0
# a while loop that allows for multiple entries and includes a kill/exit(sentinel value
while temps != 'x':
    temps = input('Please enter a temperature or type X to stop: ').strip().lower()
    # to verify and/or convert input to float or exit series input
    while True:
        if temps == 'x':
            break
        try:
            float(temps)
            temps = float(temps)
            break
        except ValueError:
            temps = input('\nYou did not enter a temperature.\n'
                          'Please enter a temperature to continue or X to stop: ').stri
    if temps == 'x':
        break
    temperatures.append(temps)
if not temperatures:
    print('You  did not input a temperature to determine a high or low.')
else:
    print('\nYou entered', len(temperatures), 'accepted temperature(s):', temperatures)
    print('The highest temperature is', max(temperatures), 'degrees.')
    print('The lowest temperature is', min(temperatures), 'degrees.')
```

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This program accepts temperature input(s) and returns the
highest, lowest, and total number of temperatures entered.

Please enter a temperature or type X to stop: 67
Please enter a temperature or type X to stop: 78
Please enter a temperature or type X to stop: 89
Please enter a temperature or type X to stop: 90
Please enter a temperature or type X to stop: x

You entered 4 accepted temperature(s): [67.0, 78.0, 89.0, 90.0]
The highest temperature is 90.0 degrees.
The lowest temperature is 67.0 degrees.
```

In [ ]:

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