In [1]:
```
# 10. A topic we did not cover this week is the process of accepting user inpu
t, such as a string or integer through a text box.
# Try to find online the correct approach to accepting user input, and attempt
to mimic the output shown
# in the following screenshot. Text entered by the user has been highlighted i
n bold to make the example clearer:

def start():
    yourName = input("What is your name? ")
    print("Hello", yourName + "!\nPlease create a list of values by entering a
value and pressing enter."
          "\nWhen you have added all of the values you wish to enter, enter '#
STOP'")
```

In [2]:
```
def getValues(prompt):
    valueList = []

    while True:

        answer = input(prompt)

        if answer.upper() in ('STOP', '#STOP'):
        # equally ok to write:
        # if answer.upper() == '#STOP'
        # if answer == '#STOP'
            print("Thanks. You chose to stop! Your list comprises :\n", valueL
ist)
            break

        else:
            valueList.append(answer)
            #print(valueList)

    return valueList
# print(getValues("Value:")) #this one causes an extra None output
# print("please continue")
```

In [3]:
```
def getMoreValuesOuterLoop():
    valueList = getValues("Value: ")

    def getMoreValues():

        print("What would you like to do? Options are: 'a' to add, press 'd' t
o delete,\n"
              "or press 'r' to retrieve. Enter any other character to exit.")
        ans = True
        while ans:
            ans = input()
            if ans == "a":
                ansA = input("What value would you like to add?\n")
                valueList.append(ansA)
                print("Value", ansA, "added.", valueList)
                print()
                getMoreValues()

            elif ans == "d":
                ansD = input("What value would you like to remove?\n")
                if ansD in valueList:
                    print(ansD, "found at list index", valueList.index(ansD))
                    valueList.remove(ansD)
                    print(ansD, "removed, list now comprises", valueList)
                    print()
                else:
                    print("no such value :", ansD)
                    print()
                getMoreValues()

            elif ans == "r":
                ansR = int(input("What index would you like to retrieve?\n"))
                if ansR in range(0, len(valueList)):
                    print("Input index value is:", ansR)
                    print("Value at index", ansR, ":", valueList[ansR])
                    print()
                else:
                    print("Index out of range\n")
                getMoreValues()

            elif ans not in ("a", "d", "r"):
                print("exit")

    getMoreValues()
```

In [4]:
```
def main():
    start()
    #getValues("Value: ")
    getMoreValuesOuterLoop()
    #getMoreValues()
main()
```

```
What is your name? Joe
Hello Joe!
Please create a list of values by entering a value and pressing enter.
When you have added all of the values you wish to enter, enter '#STOP'
Value: cow
Value: cat
Value: dog
Value: stop
Thanks. You chose to stop! Your list comprises :
 ['cow', 'cat', 'dog']
What would you like to do? Options are: 'a' to add, press 'd' to delete,
or press 'r' to retrieve. Enter any other character to exit.
a
What value would you like to add?
mouse
Value mouse added. ['cow', 'cat', 'dog', 'mouse']

What would you like to do? Options are: 'a' to add, press 'd' to delete,
or press 'r' to retrieve. Enter any other character to exit.
d
What value would you like to remove?
cow
cow found at list index 0
cow removed, list now comprises ['cat', 'dog', 'mouse']

What would you like to do? Options are: 'a' to add, press 'd' to delete,
or press 'r' to retrieve. Enter any other character to exit.
r
What index would you like to retrieve?
0
Input index value is: 0
Value at index 0 : cat

What would you like to do? Options are: 'a' to add, press 'd' to delete,
or press 'r' to retrieve. Enter any other character to exit.

exit

exit

exit

exit
```

In [ ]: