Breake

JAZMIN // LUISA // LUNA

Breake

Definition:

IT ALLOWS YOU TO STOP THE EXECUTION OF A FOR OR WHILE LOOP BEFORE IT HAS COMPLETED ALL ITS ITERATIONS OR MET ITS CONDITION. THE BREAK STATEMENT ONLY EXITS THE INNERMOST LOOP WHERE IT IS USED, NOT ANY OUTER LOOPS.

In Python, the break statement is used to exit a loop prematurely.

Syntax

WHAT IS SYNTAX ?

Syntax is the set of rules in a language that dictates how words and phrases are arranged to create meaningful sentences. It involves the placement of words in a specific order to convey complete thoughts, such as the typical subject-verb-object sequence in English. Proper syntax is essential for grammatical correctness and clarity in communication.

```
while True:
    value = int(input("Enter a number to add to the list: "))
    if (value !=0):
        value_list.append(value)
        print ("in the order the items were added:", value_list)
        order = sorted(value_list)
        print ("The ordered from smallest to greatest:", order)

        continue
    else:
        break
return (value_list)
```

Repository Checkpoint 5 > list_fun_prectice.py > ...

```
def main():
    print("The length of your list is:",(length(values())))
    print("The mean of your list is:", (mean(values())))

def values():
    value_list = []
    while True:
        value = int(input("Enter a number to add to the list: "))
        if (value !=0):
            value_list.append(value)
            print ("in the order the items were added:", value_list)
            order = sorted(value_list)
            print ("The ordered from smallest to greatest:", order)

            continue
        else:
            break
    return (value_list)


def length(list):
    return len(list)

def mean(list):
    return (sum(list) / len(list))

def range(list):
    print("The range of your list is:", (max(list

main()
```

```
Enter a number to add to the list: 5
in the order the items were added: [3, 6, 8, 2, 5]
The ordered from smallest to greatest: [2, 3, 5, 6, 8]
Enter a number to add to the list: 0
The length of your list is: 5
Enter a number to add to the list: 5
in the order the items were added: [5]
The ordered from smallest to greatest: [5]
Enter a number to add to the list: 7
in the order the items were added: [5, 7]
The ordered from smallest to greatest: [5, 7]
Enter a number to add to the list: 2
in the order the items were added: [5, 7, 2]
The ordered from smallest to greatest: [2, 5, 7]
Enter a number to add to the list: 4
in the order the items were added: [5, 7, 2, 4]
The ordered from smallest to greatest: [2, 4, 5, 7]
Enter a number to add to the list: 0
The mean of your list is: 4.5
```

In a while loop, it keeps running and repeating commands over and over again. To stop it, you can put a break simply by writing the word with an indentation, usually after an if or an else.

Break

Code Example:

```
while True:
        word = int(input("Type number to add to list: "))
        if word == 0:
                break
```