Chapter 5

Loops

Loops in Python

Loops are used to repeat instructions.

while Loops

```
while condition :
        #some work
        # if needed there has updation
```

print numbers from 1 to 5

show infinite, iterator

Let's Practice

Print numbers from 100 to 1.

Let's Practice

Write a program that takes an integer number from the user and counts how many digits it has using a while loop.

Let's Practice

Write a program that asks the user to enter numbers and adds them to a total.
Stop the loop when the user enters 0, and then print the total sum.

Let's Practice

Write a program that takes a number from the user and prints its digits in reverse order using a while loop.

Let's Practice

Print the elements of the following list using a loop:

[2, 5, 10, 17, 26, 37, 50, 65, 82, 101]

Let's Practice

Search for a number x in this tuple using loop:

(3, 6, 9, 12, 15, 18, 21, 24, 27, 30)

Break

Break : used to terminate the loop when encountered.

Continue

Continue : terminates execution in the current iteration &
continues execution of the loop
with the next iteration.

Else Statement in While

Else Statement: With the else statement we can run a block of code once when the condition no longer is true: