Basic Python #3

AI Mentorship

Outline

Python: For Loop

Python has two primitive loop commands:
1. `for` loops
2. `while` loops

A `for` loop is used for iterating over a sequence

```python
fruits = ["apple", "banana", "cherry"]
for x in fruits:
  print(x)
```

Python: Range

The `range()` function returns a sequence of numbers, starting from 0 by default, and increments by 1 (by default), and stops before a specified number.

```
range(start, stop, step)
```

```python
x = range(6)
for n in x:
  print(n)

x = range(3, 6)
for n in x:
  print(n)

x = range(3, 20, 2)
for n in x:
  print(n)
```

Python: While Loop

With the `while` loop we can execute a set of statements as long as a condition is true.

```python
while True:
    # execute this

i = 1
while i < 6:
    print(i)
    i += 1
```

Python: Continue

With the `continue` statement we can stop the current iteration, and continue with the next

```python
for i in range(5):
  if i == 3:
    continue
  print(i)
```

Python: Break

With the `break` statement we can stop the loop even if the while condition is true.

```python
for i in range(5):
  if i == 3:
    break
  print(i)
```

Python: Nested Loop

A nested loop is a loop inside a loop.
The "inner loop" will be executed one time for each iteration of the "outer loop".

```python
for i in range(2):
  for j in range(3):
    print("i:{},j:{}".format(i,j) ,end=" ")
  print()
```

Python: For Loop - Program Example

Program Name : for_loop_example.py

Create program that receive **n** customer name and age data, then print all of the customer data, Where **n** is an integer.

Membuat program yang menerima **n** nama pelanggan dan data umur, lalu mencetak semua data pelanggan tersebut, Dimana **n** adalah bilangan bulat.