



# Python Loop





# For Loop & While Loop

## ● For Loop

Understanding how for loop works in python.

- ❖ Range
- ❖ Program Example

## ● While Loop

Understanding other choices of looping technique in python.

- ❖ Continue
- ❖ Break
- ❖ Nested Loop

# Python: For Loop

Python has two loop commands:

1. `for` loops
2. `while` loops

A `for` loop is used for iterating over a sequence like below.

```
fruits = ["apple", "banana", "cherry"]  
for x in fruits: # prints out apple, banana, cherry  
    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. The keyword is `range(start, stop, step)`.

```
x = range(6)
for n in x: # prints out 0, 1, 2, 3, 4, 5
    print(n)
```

```
x = range(3, 6)
for n in x: # prints out 3, 4, 5
    print(n)
```

```
x = range(3, 20, 2)
for n in x: # prints out 3, 5, 7, 9, 11, 13, 15, 17, 19
    print(n)
```

# Quiz Session



# Quiz

---

Create program that receive **n** person name, then print all of the name.

Where **n** is in integer.

Buatlah program yang menerima nama orang sebanyak **n**, kemudian print setiap namanya.

**n** adalah integer.

# Python: While Loop

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

```
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.

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

# Python: Break

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

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

# 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".

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

# Quiz Session



# Quiz

---

What is output from this code:

```
x = [1, 2, 3, 4, 5]
```

```
y = [2, 4, 3, 5, 6]
```

```
z = 0
```

```
for i in x:
```

```
    for j in y:
```

```
        if i == j:
```

```
            z = z + 1
```

```
print(z)
```



**Indonesia AI**  
AI for Everyone, AI for Indonesia

# Terima Kasih!

[Indonesia AI | AI for Everyone, AI for Indonesia](#)

[contact@aiforindonesia.org](mailto:contact@aiforindonesia.org)