

## 2. If Statements

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```
cars = ['audi', 'bmw', 'subaru', 'toyota']
for car in cars:
    if car == 'bmw':
        print(car.upper())
    else:
        print(car.title())
```

### Python Flow Control

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#### Python if...else

What are if...else statement in Python?

Decision making is required when we want to execute a code only if a certain condition is satisfied.

The if...elif...else statement is used in Python for decision making.

Python if Statement Syntax

```
if test expression:
    statement(s)
```

#### Python if...elif...else Statement

Syntax of if...elif...else

```
if test expression:
    Body of if
elif test expression:
    Body of elif
else:
    Body of else
```

#### if statements

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##### Simple if Statements

The simplest kind of if statement has one test and one action:

```
if conditional_test:
    do something
```

##### if-else Statements

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```
age = 17
if age >= 18:
    print("You are old enough to vote!")
    print("Have you registered to vote yet?")
else:
```

```
print("Sorry, you are too young to vote.")
print("Please register to vote as soon as you turn 18!")
```

### The if-elif-else Chain

```
-----
age = 12
if age < 4:
    price = 0
elif age < 18:
    price = 5
u elif age < 65:
    price = 10
v else:
    price = 5
```

```
requested_toppings = ['mushrooms', 'green peppers', 'extra cheese']
for requested_topping in requested_toppings:
    print("Adding " + requested_topping + ".")
print("\nFinished making your pizza!")
```

```
if requested_toppings:
    for requested_topping in requested_toppings:
        print("Adding " + requested_topping + ".")
    print("\nFinished making your pizza!")
else:
    print("Are you sure you want a plain pizza?")
```