

Selection

In programming sometimes the program will need to make decisions depending on the value of the variables (the state)

```
age = 16
if age >=18:
    print("You can vote")
else:
    print("You are not old enough")
```

You are not old enough

In the example above if you are 18 or above you can vote, otherwise you cant!

Below is another example

```
name = "bob"

if name=="bob":
    print("Hi bob, how are you?")
else:
    print("Your not bob!")
```

Hi bob, how are you?

In this example we check if a string was equal, is name the same as bob, this is like a log in system.

```
raining = True

if raining == True:
    print("You will need an umbrealla.")
else:
    print("Its dry today, leave umbrella at home.")
```

You will need an umbrealla.

We can combine more than 1 condition together

```
raining = True
cold = False
if raining and cold:
    print("You will nead your winter coat today.")
else:
    print("Weather is not too bad, you can cope!")
```

Weather is not too bad, you can cope!

In this example using the 'and' keyword we check if both are true at the same time.

```
raining = True
cold = False
if raining or cold:
    print("You will nead your winter coat today.")
else:
    print("Weather is not too bad, you can cope!")
```

You will nead your winter coat today.

This example looks similar, but using 'or' means only 1 of them has to be True (or both) so this works differently to the 'and'.