

Python Conditional Statements (if, elif, else)

Conditional statements allow code to be executed when a specific condition is met, if the condition is not met, some alternate code may run.

```
age = int(input("Enter your age: "))

if age >= 18:
    print("You are old enough to vote!")
else:
    print(f"You can vote in {18 - age} years.")
```

The indentation is important here and you can have multiple lines for each condition. You can also have a condition within another condition using 'elif' short for 'else if'.

There is no limit to the number of 'elif' conditions but their order does matter.

```
age = int(input("Enter your age: "))

if age >= 21:
    print("You are old enough to drink in Australia and the USA.")
elif age >= 18:
    print("You are old enough to drink in Australia,")
    print("but not the USA.")
elif age <10:
    print("You are much too young to drink alcohol.")
else:
    print(f"In {18 - age} years you can drink in Australia.")
    print(f"In {21 - age} years you can drink in the USA.")
```

Comparison operators are:

- > greater than
- >= greater than or equal to
- < less than
- <= less than or equal to
- == equal to
- != anything other than

```
response = input("Do you like Maths? (Y/N): ")

if response == "Y":    #<-- the == is a comparison operator
    print("You will be a good programmer!")
elif response != "N":
    print("You need to enter Y or N!")
else:
    print("Maths is easy if you work at it!")
```

Another example to check whether the user entered something:

```
name = input("Enter your name: ")

if name == "":    #<-- the == "" check for blank input
    print("You did not enter anything, dummy!")
else:
    print(f"Good to see you, {name}")
```

A 'boolean' condition simply checks if the variable is set to **True**

```
name = input("Enter your name: ")
age = int(input("Enter your age: "))

if age < 18:
    restricted = True
else:
    restricted = False

if restricted:
    print(f"Sorry {name}, you are not allowed to enter")
else:
    print(f>Welcome {name}, you are welcome to enter")
```

Exercise:

Write code using an **if** statement that asks for the user's name via `input()` function. If the name is "Bond" make it print "Welcome on board 007". Otherwise make it print "Good morning <name>". (Replace <name> with user's inputted name).

Exercise:

Extend the above code making sure that the code prints "Welcome on board 007" if the user types either "Bond" or "bond" or "BOND".

hint: construct your logical statement with `name.lower()`