## **Conditions**

This is code braching. The code will take different paths depending on what happens, and the value of variables.

```
In [ ]:
    # Here we check if you have enough money (more than 3.00)
    money = 3.10

if money > 3.00:
    print("you can buy this") #true
else:
    print("you dont have the right amount") #false
```

you can buy this

This will also work with strings. Eg. You may be looking up names in a database, or passwords.

please contact admin

Note: fname = "Paul" is assignmet, its storing "paul" fname == "Paul" is a test of equality

```
In [ ]: # This time we use or, this is 1 or the other.

raining = True  # boolean  True or False  1 / 0
temp = 6  # its cold

if raining == True or temp < 5: #only 1 of them has to be true
    print("get a taxi to work")
else:
    print("you can walk")</pre>
```

get a taxi to work

Check if a person is over 18, and has a clubcard - they get a discount

```
In [ ]:
    age = 20
    clubcard = True

if age > 18 and clubcard == True: #both must be true
    print("you can buy a discounted drink")
else:
    print("sorry no discount")
```

you can buy a discounted drink

In the example below we will use a list of names and loop over them to see if the name is in the list.

```
In [ ]:
```

```
names = ["bob", "anne", "homer", "anakin"]
found = False
target = "paul"

for n in range(0,len(names)):
   if names[n] == target:
      print("Found " + target)
      found = True

if found == False:
      print(target + " not found")
```

paul not found

There is also a built in function 'in' to do this. But be carful how you use it.

```
if "home" in names:
    print("found")
else:
    print("not found")
```