There are different types of variables. You already now Strings, Numbers and Lists. (In other programming languages, lists are called arrays.) Booleans are another type: There are only 2 possibilities: True or False.

Weird: In programming "equal" is written as == (4==4 or "Hermione"=="Hermione") A single = is an assignment, giving a value to a variable (name = "Hermione", hair = "blonde")

```
== equal
!= not equal
< left side smaller than right side (4 < 5)
> left side is bigger than right side (5 > 4)
#Task 5:
```

Colour every expression that can only be True of False. Hint: Look for statements starting with "if" or "while"

```
# guess the number
import random
guessesTaken = 0
print('Hello! What is your name?')
myName = input()
number = random.randint(1, 20)
print('Well, ' +myName+ ', I am thinking of a number between 1 and 20.')
while guessesTaken < 6:
    print('Take a guess.')
    guess = input()
    guess = int(guess)
    guessesTaken = guessesTaken + 1
    if guess < number:
        print('Your guess is too low.')
    if guess > number:
        print('Your guess is too high.')
    if quess == number:
        break
if guess == number:
    guessesTaken = str(guessesTaken)
    print('Good job, ' +myName+ '! You guessed my number in ' +guessesTaken+ ' guesses!')
if guess != number:
    number = str(number)
    print('Nope. The number I was thinking of was ' +number)
```