

Blocks are lines of code that are run (**executed**) together. Blocks in Python are **indented 4 spaces** from the code they belong to. There can be blocks in blocks in blocks in blocks...

Example of a block:

```
if name == "Hermione":  
    hair = "blonde"  
    eyes = "blue"
```

if the variable name is "Hermione", then both variables in this block will be assigned: hair will be blonde AND eyes will be blue: The whole block is run (or executed) together.

#Task 6:

Colour all the blocks in one colour.

Then underline the blocks inside blocks in a different colour.

```
# 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 guess == 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)
```