

Functions are always doing something. They are the **action** in a programme. They have a **name** and after the name a **bracket**. The brackets can be empty or have something in them. If there is something inside the brackets, that's called the **arguments** or the **parameters** of the function.

Examples of functions:

```
print("hello Hermione")  
input()
```

#Task 3:

Find and colour all the functions in the "guess the number" programme. Colour the name, the brackets and everything inside the brackets, if they are not empty.

```
# 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)
```