

When you write the name of a **variable** for the first time, this is called to **declare** a variable. When you give the variable a value, this is called **assign** a value to a variable. This is done with the **=** sign.

Examples of variable declaration and assignment:

```
name = "Hermione"
```

```
age = 7
```

```
family = ["James", "Martha", "Walter", "Loulou", "Leila"]
```

#Task 1:

Find and colour all the variables, only once, when they appear the first time (when they are declared and assigned their first value).

How many different variables are there in "guess the number"?

```
# 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)
```