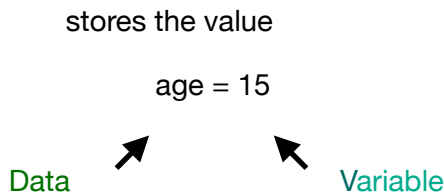
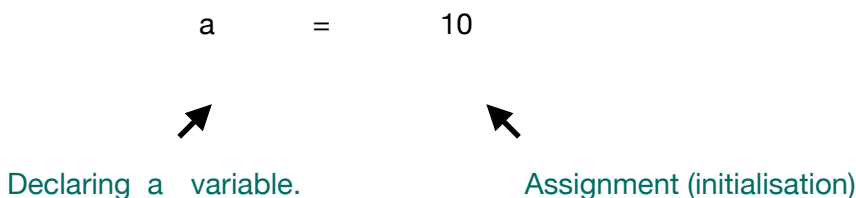


## Variables

- The important elements of a programs are
  - 1) Data
  - 2) Instruction
- Instructions are the set of operations which will perform in data
- Variables are the names given to the data and we can handle a data . Variable represents a memory location where some data can be stored
- A Python variable is a reserved memory location to store values. In other words, a variable in a python program gives data to the computer for processing.



- whenever we give or declare a variable we also initialise it .



- We can't leave variable blank for example : age = , a= etc....
- In other languages( c , c++ , java ....) we have to declare a type but in python we don't have to . We can give a variable an int , string , float or complex

### Declaring multiple variable :

a , b , c = 5 , 10 , 15

- we can declare multiple value . Here a = 5 , b = 10 , c = 15
- We can also declare as x , y , z = 1 , 1 , 1

or

x = y = z = 1

- we can declare and initialise simultaneously .

### Re-declare a Variable

- You can re-declare Python variables even after you have declared once.
- Here we have Python declare variable initialised to

x = " hi "

- Later, we re-assign the variable x to value

```
x = "python "
```