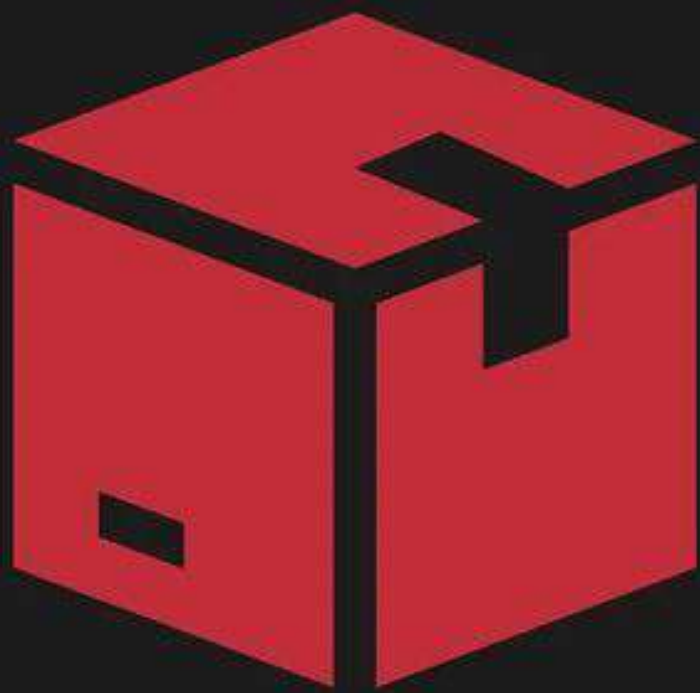# Variables

Variables

Variables are like a container
where we can store the data

Container

Container
with data

int a

a = 2

Operation on Variable

Access Container value

2

+

Do some opration

2

Store in same container

2

int a = 2

4

a = 4

Access
Container value

Do some
opration

2 + 2

Store in same
container

2

int a = 2

4

a = 4
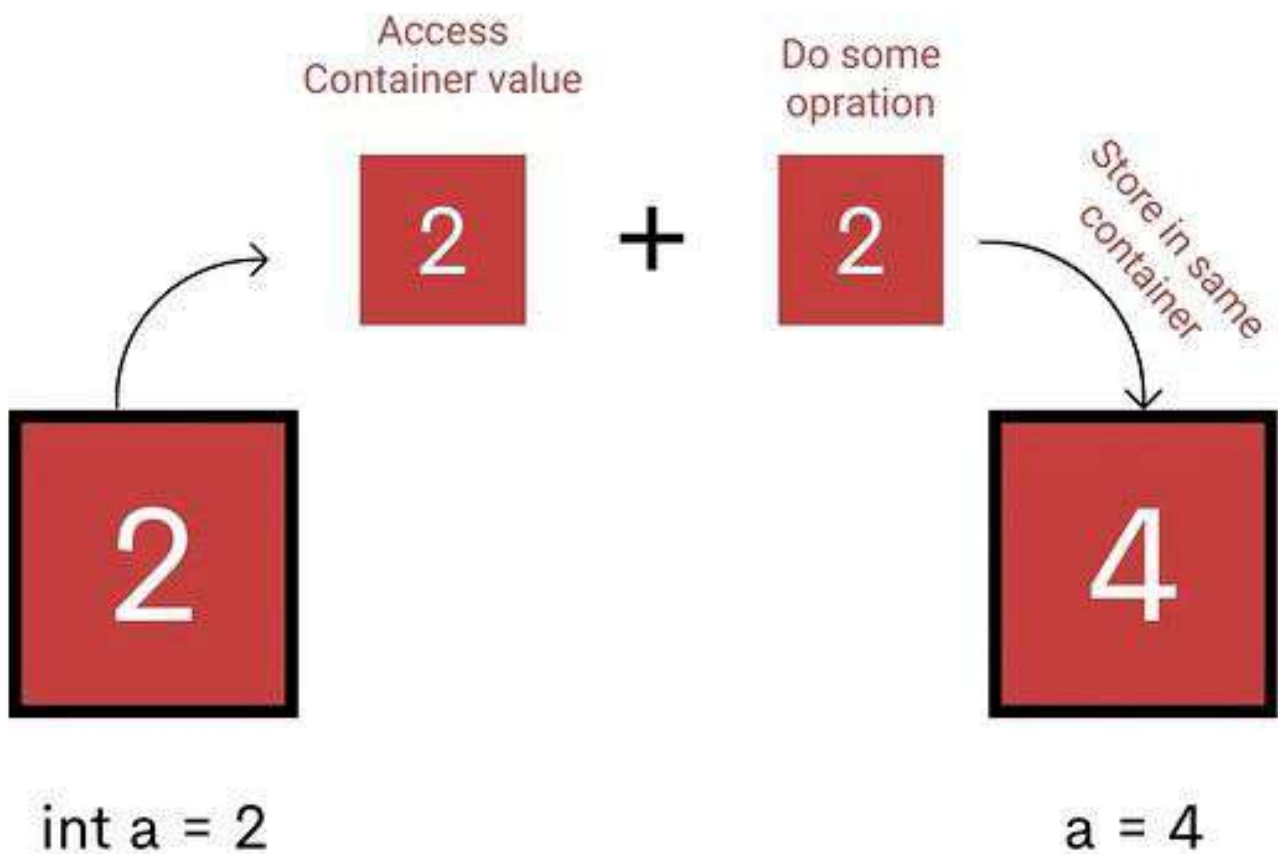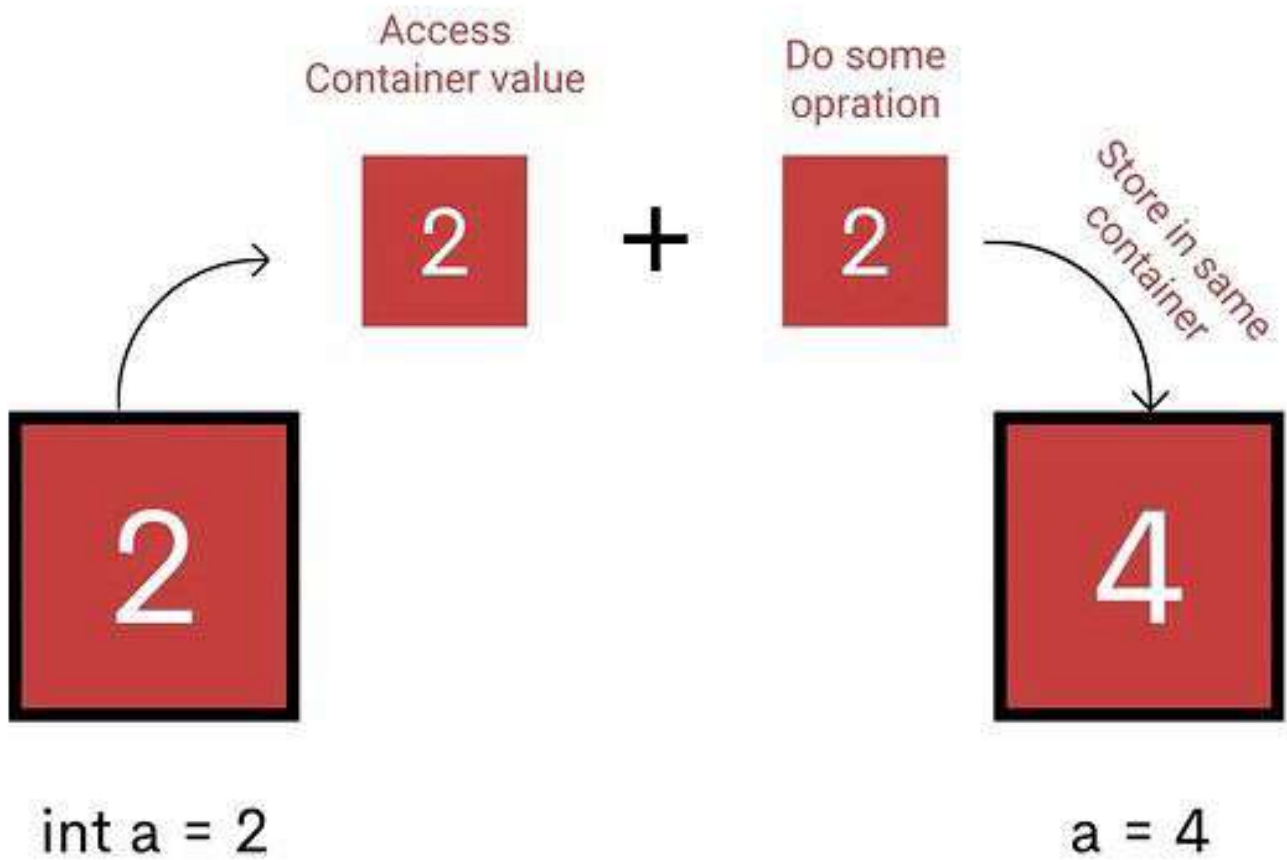
```
##-- IN PROGRAMMING --##

int a = 2;
a = a + 2;
print(a);
```

Variables
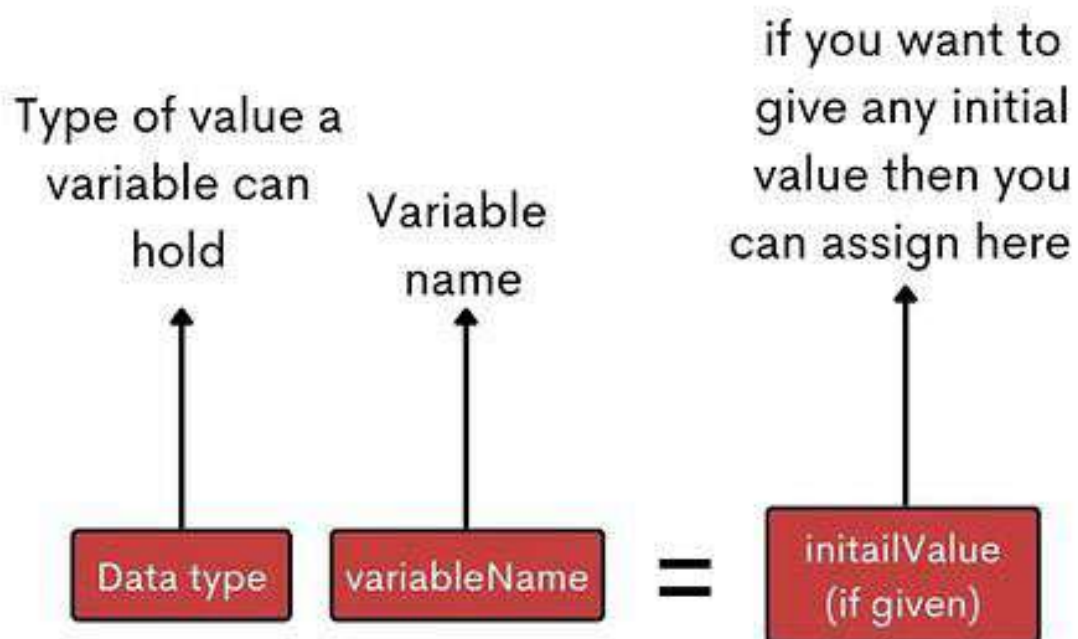# Declaration

In Programming, we follow
a syntax for declaring a variable

| Data type | variableName | = | initailValue (if given) |

Syntax for declaring a variable

Type of value a
variable can
hold

Variable
name

if you want to
give any initial
value then you
can assign here

| Data type | variableName | = | initailValue (if given) |

Syntax for declaring a variable

≫

Data type	variableName	=	initailValue (if given)
int	a	=	10
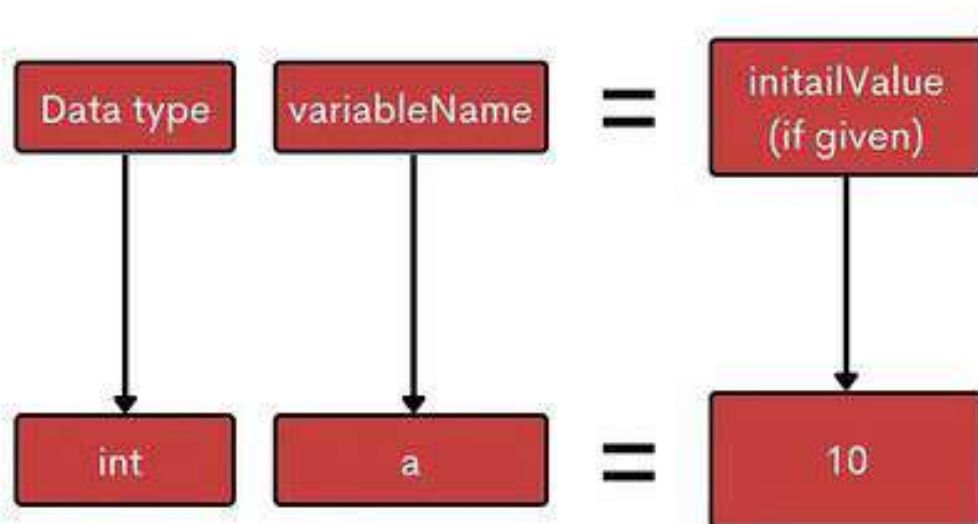
Variable Representation in Memory

In Computer RAM is used to store everything so when we declare a variable in programming (int a =2) in backend, the processor will go to the RAM and access any random block of memory and store the initial value in it

Memory addresses

001	002	003	004	005	006
	2				

a

RAM