

## Variables :

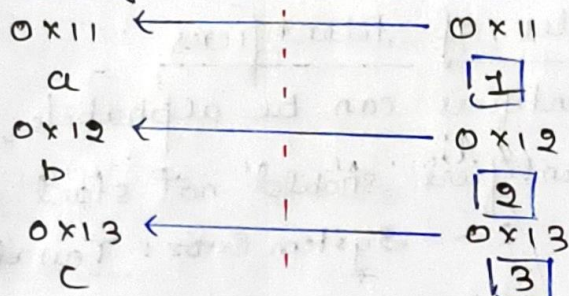
Variable is a name given to the memory location where the value has been stored.

### Syntax :

① variable name = value

② var1, var2, var3... varn = val1, val2, ... valn.  
a, b, c = 1, 2, 3

Variable space : Value space



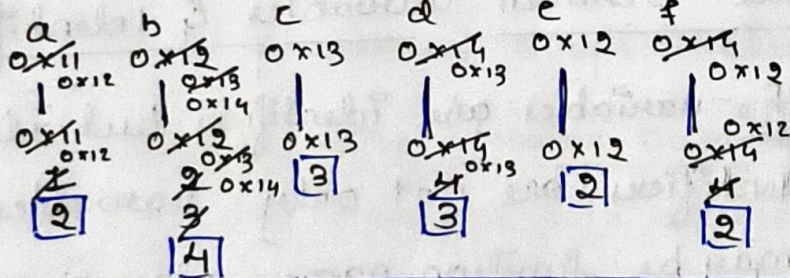
In case of python if we are having the same variable name with the length less than 256, then the old value will get overridden by the new value to save the memory.

3) id ( )  
↓ var / val  
↓ Address

This function will take variable / value as input & return address of variable / value as output.

Swapping of variables : It is a process of interchanging the values of variables.

→ a=1, b=2, c=3, d=4, e=b, f=d, a=e, b=c, d=b, b=f, f=a



→ Black=1200, white=997, pink=30, blue=700, red=pink, brown=black  
black=white, blue=red, Brown=blue, white=pink, black=blue, blue=white

