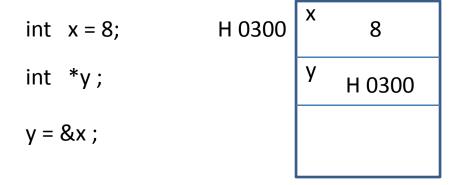
Pointers in C / C++

• A pointer is a variable that stores a memory address.



The * operator is used for definition and indirection.

int x = 8; int *y; y = &x;

*y =10; H 0300 X 10 Y H 0300

It is valid to have a pointer to pointer.

int $x = 8$;			
int *y;	H 0300	X	8
y = &x	H 0304	У	H 0300
int **z;		Z	H 0304
z = &y;	l		

Pointers are particularly useful as function parameters

Example (From MAT 233 notes):

Pointers and arrays

Declaring an array is declaring a pointer to its first element

```
int x[5];
int *y;
int *z;
int *q;

y = x;
z = &x[0];
q = &x[2];
```

