

5/10/23

Date... (13)

Void Pointer In C++

→ It can point to any data type. These are generic pointers because can point to any type of object or data. Void pointers are declared using keyword void as pointer type.

ex void * ptr;

→ In all void pointers we must cast it to specific data type

int x = 10;
void * ptr = &x;

★ → int * int_ptr = static_cast<int*>(ptr);
*int_ptr → 10

→ They are commonly use for dynamic memory allocation using 'new' operator

→ with 'new' → the type is determined at runtime

⊗ → int * ptr = new int;
void * vptr = ptr;
int * int_ptr = static_cast<int*>(vptr);
*int_ptr = 10;
*ptr → 10

ptr → vptr → *int_ptr → 10

Spiral

→ Casting operator

5/10/23

Date: 7/4

static cast <int > (expression)

↓
new datatype
which you want to convert to

var name

int & → new datatype

→ It is an pointer to an Integer

→ We're casting a void pointer to an integer pointer

→ when we do this, telling compiler that we have void pointer

↓ Treat it as

new data type pointer

Spiral