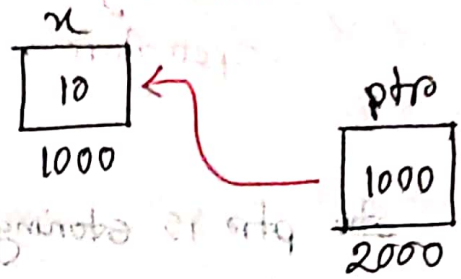
Value of Operator in Pointers

Value of operator / indirection operator / dereference operator is an operator that is used to access the value at the location pointed by the pointer. (*)

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




```
printf("%d", *ptr);
```

Value of Operator

Dereference

It goes to the ~~object~~ address of object and take what is stored in the object.

Output = 10

```
int x = 10;
int *ptr = &x;
*ptr = 4;
```

go to the address of x (1000) change the value to (4)

Important points to remember:

→ Never apply the indirection operator (*) to the uninitialized ~~operator~~ pointer.

```
int *ptr;
printf("%d", *ptr);
```

pointer must point to some object or variable. But here no object is found. So, ERROR will occur.

→ Assigning value to an uninitialized pointer is ~~dc~~ dangerous.

```
int *ptr;
*ptr = 1;
```

This pointer doesn't point to any variable thus it will ~~go~~ try to point any memory, But sometimes the memory location may be unauthorized for user. So, (SEGMENTATION FAULT) ERROR occurs.

try to read or write illegal memory location.