Dereferencing a pointer

We learnt how to store an address inside a pointer variable. We can also use the * operator to get the variable stored in a particular address. This process is called **pointer dereferencing**.

For example:

Note that the * symbol can be confusing here, as it does two different things in our code:

- When used in declaration (int *p), it creates a pointer variable.
- When not used in declaration, it act as a dereference operator.

Runt the code in the IDE and check the output.

- The first **cout** prints the address that is stored in the pointer **p**. This is the memory address where **x** is located.
- Next line uses the * operator to dereference the pointer p, which means it
 accesses the value stored at the address that ptr points to. It prints the value
 40, which is the value of x.

Click Submit and observe the code and output