**C# Call By Reference**

C# provides a **ref** keyword to pass argument as reference-type. It passes reference of arguments to the function rather than copy of original value. The changes in passed values are permanent and **modify** the original variable value.

**C# Call By Reference Example**

1. using System;
2. namespace CallByReference
3. {
4. class Program
5. {
6. // User defined function
7. public void Show(ref int val)
8. {
9. val \*= val; // Manipulating value
10. Console.WriteLine("Value inside the show function "+val);
11. // No return statement
12. }
13. // Main function, execution entry point of the program
14. static void Main(string[] args)
15. {
16. int val = 50;
17. Program program = new Program(); // Creating Object
18. Console.WriteLine("Value before calling the function "+val);
19. program.Show(ref val); // Calling Function by passing reference
20. Console.WriteLine("Value after calling the function " + val);
21. }
22. }
23. }

**Output:**

Value before calling the function 50

Value inside the show function 2500

Value after calling the function 2500