**Program using IN and OUT Parameters:**

using System;

class Program

{

public static void Add(in int id1, Emp obj1, out Emp obj2, out int id2)

{

Console.WriteLine("ID 1: " + id1);

id2 = id1 + 250;

Console.WriteLine("ID 2: " + id2);

obj1 = new Emp();

obj2 = new Emp();

obj1.num = 30;

obj2.num = 40;

}

public static void Main(string[] args)

{

int temp1 = 100;

int temp2;

Emp emp1 = new Emp();

Emp emp2 = new Emp();

emp1.num = 500;

Add(temp1, emp1, out emp2, out temp2);

Console.WriteLine("EMP 1: " + emp1.num);

Console.WriteLine("EMP 2: " + emp2.num);

Console.ReadKey();

}

}

class Emp

{

public int num;

}

**Symbol Table for IN and OUT Program:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Symbol** | **Address ID** | **Datatype** | **Init?** |
| temp1 | #001 | int | 1 |
| temp2 | #002 | int | 1 |
| emp1 | #003 | emp | 1 |
| emp2 | #004 | emp | 1 |
| id1 | #001 | int | 1 |
| id2 | #002 | int | 1 |
| obj1 | #005 | emp | 1 |
| obj2 | #004 | emp | 1 |

**ID and Addresses:**

|  |  |
| --- | --- |
| **Address ID** | **Address** |
| #001 | 0X001 |
| #002 | 0X002 |
| #003 | 0X011 |
| #004 | 0X012 |
| #005 | 0X013 |