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Q1 WAP in c# using "this" keyword
using System;
class Program
  int x;
  public Program(int x)
    this.x = x;
  public void Display()
    Console.WriteLine(this.x);
  }
  static void Main()
    new Program(10).Display();
  }
}
Q2 Write a program in C# to find the square of a number :
1. Using pass by value
2. Using pass by reference
Here are examples of programs in C# that calculate the square of a number using pass by
value and pass by reference:
using System;
class Program
  static void CalculateSquare(int num)
  {
    int square = num * num;
    Console.WriteLine($"Square of {num} is {square}");
  }
  static void Main()
  {
    int number = 5;
    Console.WriteLine("Before: " + number);
    CalculateSquare(number);
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Console.WriteLine("After: " + number);
  }
}
using System;
class Program
  static void CalculateSquare(ref int num)
  {
    int square = num * num;
    Console.WriteLine($"Square of {num} is {square}");
    num = square; // Modify the original value
  }
  static void Main()
    int number = 5;
    Console.WriteLine("Before: " + number);
    CalculateSquare(ref number);
    Console.WriteLine("After: " + number);
  }
}
Q3 Wap to find the integer and fractional part of a number using 'out keyword '
using System;
class Program
  static void Main()
  {
    double num = 123.456;
    int integerPart;
    double fractionalPart;
    SeparateNumber(num, out integerPart, out fractionalPart);
    Console.WriteLine("Integer Part: " + integerPart);
    Console.WriteLine("Fractional Part: " + fractionalPart);
  }
  static void SeparateNumber(double number, out int integerPart, out double fractionalPart)
  {
    integerPart = (int)number;
    fractionalPart = number - integerPart;
  }
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}
Q4 Wap to find the smallest element in the array
using System;
class Program
  static void Main()
     int[] arr = { 10, 20, 3, 40, 5 };
     int smallest = FindSmallest(arr);
     Console.WriteLine("Smallest element: " + smallest);
  }
  static int FindSmallest(int[] arr)
  {
     int smallest = arr[0];
     for (int i = 1; i < arr.Length; i++)
        if (arr[i] < smallest)
          smallest = arr[i];
        }
     }
     return smallest;
}
```