```
1 //using is a directive
 2 //System is a namespace, namespace groups related features together
 3 //System is needed so we can use Console, classes
 4 using static System.Console;
 5 //outermost level of grouping
 6 class Program
 7
       //public means accessible anywhere
 8
       //static means we can call it just by wriring SumArray(argument)
9
       //double is the return type
       //name is SumArray
10
        //parameter is an array of type double
11
        public static double SumArray(double[] arr)
12
13
14
            double sum = 0;//declare and set sum to be 0
            foreach(var d in arr) //use this loop to iterate over the values
15
16
            {
17
                sum += d;//accumulate the sum inside the variable called sum
18
            }
19
            return sum;//send the sum back to the calling code
20
        }
       //Main is a method
21
22
        //this is the entry point into program
23
       static void Main()
24
        {
25
            double[] myValues = new double[] { 1, 2, 3 };
26
            //make array of values
27
            //line below calls SumArray(myValues) and gets back a double
28
            //this value is then spliced into the string
            //and the result is displayed to the user
29
30
           WriteLine($"The sum of the values is {SumArray(myValues)}");
31
        }
32 }
33
34
```