```
1 //overloading operators
 2 //imagine we have to give a meaning to what it means to add two documents
 3 //we introduce the concept of an overloaded operator
 4 using static System.Console;//for getting WriteLine
 5 class Document//declare document type
 6 {
 7
        private string text;//body of the document
 8
        public Document(string body)
 9
        {
            text = body;//set body of text
10
11
12
        public string TEXT //property for getting text
13
14
            get { return text; }
15
16
        //public means accessible to all code
17
        //returns a Document object
        //+ operator is the symbol that is overloaded, or given a new meaning
18
19
        public static Document operator +(Document doc1, Document doc2)
20
            return new Document(doc1.text + doc2.text);
21
22
23 }
   class Program
25
26
       static void Main()
27
            //make two documents
28
            Document doc1 = new Document("This is a great day ");
29
            Document doc2 = new Document(" to be alive.");
30
            //the result of adding two ducument is another document
31
            Document doc3 = doc1 + doc2;
32
33
            WriteLine($"New Text:{doc3.TEXT}");
34
        }
35 }
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58 ////System allows us to access external features
59 ///our program needs to run
60 //using static System.Console;
61 ///outermost level of grouping
62 //class Document
63 //{
```

```
64 //
         private string text;
         public Document(string body)
65 //
66 //
         {
67
   //
             text = body;
68 //
69 //
         public static Document operator +(Document doc1, Document doc2)
70 //
             return new Document(doc1.text + doc2.text);
71 //
72 //
         }
73 //
         public string TEXT
74 //
75 //
             get { return text; }
76 //
         }
77 //}
78 //class Program
79 //{
80 //
         //Main is how system loads the program
         static void Main()
81 //
82 //
         {
83 //
             Document doc1 = new Document("This is a great day ");
             Document doc2 = new Document("to be alive.");
84 //
             Document doc3 = doc1 + doc2;
85 //
             WriteLine($"New Text:{doc3.TEXT}");
86 //
87 //
         }
88 //}
89
90
```