

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6 using System.ComponentModel;
7
8 namespace knapsackplanner
9 {
10     class Item
11     {
12         //#####
13         /// Instance Variables
14         private string _name;
15         /// <summary>
16         /// Item weight
17         /// </summary>
18         private double _weight;
19         /// <summary>
20         /// Item volume
21         /// </summary>
22         private double _volume;
23         /// <summary>
24         /// item value
25         /// </summary>
26         private decimal _value;
27
28
29         public Item(string name, double weight, double volume, decimal value)
30         {
31             _name = name;
32             _weight = weight;
33             _volume = volume;
34             _value = value;
35         }
36         public string Name
37         {
38             get { return _name; }
39             set { _name = value; }
40         }
41         public double Weight
42         {
43             get { return _weight; }
44             set { _weight = value; }
45         }
46         public double Volume
47         {
48             get { return _volume; }
49             set { _volume = value; }
50         }
51         public decimal Value
52         {
53             get { return _value; }
54             set { _value = value; }
```

```
55         }  
56  
57     }  
58 }  
59
```