

# COMP 3602

C# Application Development

Week Four - Online



# This Week's Learning Outcomes



# XML Comments

```
33  /// <summary>
34  /// Sell this inventory item. A given item can only be sold once so this
35  /// method returns ALREADY_SOLD if the method is called twice on the same
36  /// object.
37  /// </summary>
38  /// <param name="buyer">Name of the buyer</param>
39  /// <param name="applyDiscount">If true, this item is sold at its price
40  /// minus the DEFAULT_DISCOUNT</param>
41  /// <returns>Amount of the sale, including discount. Returns ALREADY_SOLD
42  /// if this item is already sold</returns>
43  public decimal Sell(string buyer, bool applyDiscount)
44  {
45      if (!isSold)
46      {
47          isSold = true;
48          this.buyer = buyer;
49
50          return applyDiscount ? price - (price * DEFAULT_DI
51      }
52      else
53      {
54          return ALREADY_SOLD;
55      }
56  }
57
```

Place the cursor  
above the first line  
of a Class or Public  
Method and press  
the / key three times  
quickly to generate  
an XML Comment  
"stub"

## C# XML Comments

Documents your source  
code, in XML format

Provides a standardized  
way of commenting

Populates Editor  
Tooltips in the IDE

Some tools can  
generate web or  
document  
content from the  
XML comments  
(e.g. Sandcastle)

# XML Comments

```
9 class InventoryItem
10 {
11     private decimal price;
12     private string buyer;
13     private bool isSold;
14
15     /// <summary>
16     public const decimal DEFAULT_DISCOUNT = 0.10m;
17     /// <summary>
18     public const decimal ALREADY_SOLD = 0.00m;
19
20     /// <summary>
21     1 reference
22     public InventoryItem(decimal price) { ... }
23
24     /// <summary>
25     /// Sell this inventory item. A given item can only be sold once so this
26     /// method returns ALREADY_SOLD if the method is called twice on the same object.
27     /// </summary>
28     /// <param name="buyer">Name of the buyer</param>
29     /// <param name="applyDiscount">If true, this method returns the price
30     /// minus the DEFAULT_DISCOUNT</param>
31     /// <returns>Amount of the sale, including discount</returns>
32     /// if this item is already sold</returns>
33     1 reference
34     public decimal Sell(string buyer, bool applyDiscount) { ... }
35
36     57

```

```
9 class Program
10 {
11     0 references
12     static void Main(string[] args)
13     {
14         InventoryItem item = new InventoryItem(100.00m);
15
16         item.Sell();
17     }
18 }

```

decimal InventoryItem.Sell(string buyer, bool applyDiscount)  
Sell this inventory item. A given item can only be sold once so this method returns ALREADY\_SOLD if the method is called twice on the same object.  
buyer: Name of the buyer

XML Comments appear in Editor Tooltips as a Developer is writing code.