***Code examples for the Deque<T>.cs class***

1. **Itroduction** – in the following lines we will give some simple examples on how to use the Deque.cs class.
2. **Class initialization** – We can initialize our class with any element we want. For these examples we will use a simple integer numbers. *Example*:

**Deque<int> simpleDeque = new Deque<int>();**

1. **Element pushing (adding)** – we can add elements to the both ends of our deque. *Example*:
   1. Adding to the front:

**simpleDeque.PushFirst(20);**

* 1. Adding to the back:

**simpleDeque.PushFirst(30);**

1. **Element peeking** – we can peek at our element without removing them this way. *Example*:
   1. Peeking at the back:

**simpleDeque.PeekLast()**

* 1. Peeking at the front:

**simpleDeque.PeekFirst()**

1. **Deque clear** – we can clear our deque just by invoking the Clear() method. *Example*:

**simpleDeque.Clear();**

1. **Element count** – we can get the number of elements in our class just by using the Count property. *Example*:

**simpleDeque.Count**

1. **Contains element** - we can check if a give element exists in our deque by using the Contains()method. It returns a bool value depending on whenever the value is contained or not. *Example*:

**simpleDeque.Contains(22)**

1. **Deque pop** – we can pop our deque from both side. *Example*:
   1. Poping from the back:

**simpleDeque.PopLast()**

* 1. Poping from the front:

**simpleDeque.PopLast()**