|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Scenario** | **Test Steps** | **Test Data** | **Expected Results** | **Actual Results** | **Pass/Fail** |
| 1 | Check valid data addition to custom collection | 1. Create an instance of LinkedList 2. Add data with Add() method 3. Check is length of collection was changed | Number=12 | Length was changed | As Expected | Pass |
| 2 | Check if user can add data by index,  While collection is empty | 1. Create an instance of LinkedList 2. Add data with AddAt() method | Position=100  Data =10 | Expection is throws | As Expected | Pass |
| 3 | Check if user can enumerate data | 1. Create an instance of LinkedList 2. Add elements to it 3. Use Foreach operator |  | All elements are received | As Expected | Pass |
| 4 | Check if user can remove data while collection is not empty | 1. Create an instance of LinkedList 2. Add elements 3. Remove last element with Remove() method 4. Check if last element was removed | Data=12,13,12 | Last element of collection is removed | As Expected | Pass |
| 5 | Check if user can remove data while collection is empty | 1. Create an instance of LinkedList 2. Remove last element with Remove() method |  | Exception is thrown | As Expected | Pass |
| 6 | Check if user can remove element with certain index which is less than length in not empty collection | 1. Create an instance of LinkedList 2. Add elements 3. Remove element with specific index with the help of RemoveAt() method 4. Check if element was removed | Data=12,13,12  Index = 2 | Element was deleted | As Expected | Pass |
| 7 | Check if user can remove element with certain index which is less than length empty collection | 1. Create an instance of LinkedList 2. Remove element with specific index with the help of RemoveAt() method | Data=12,21, 23 | Exceptions is thrown | As Expected | Pass |
| 8 | Check if user can enumerate data of empty collection | 1. Create an instance of LinkedList 2. Use Foreach operator |  | Expection is not thrown | As Expected | Pass |
| 9 | Get element with specific index of empty collection | 1. Create an instance of LinkedList 2. Get Element by ElementAt() method | Index=4 | Exeption is thrown | As Expected | Pass |
| 10 | Get element with specific index of nonempty collection | 1. Create an instance of LinkedList 2. Add 3 elements 3. Get Element by ElementAt() method | Index=2 | Element is received | As Expected | Pass |
| 11 | Get element with specific index of nonempty collection, but expected index is larger than collection length | 1. Create an instance of LinkedList 2. Add 3 elements   Get Element by ElementAt() method with index 10 | Index=10 | Exception is thrown | As Expected | Pass |