

Lab03 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU Start

Program.cs

Lab03 Lab03.Program UpdateNumberOfCustomers(Company company)

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6 using MainData;
7
8 namespace Lab03
9 {
10     class Program
11     {
12         static void UpdateNumberOfCustomers(Company company)
13         {
14             company.ValListOfCustomers = company.Customers.Count;
15         }
16
17         static void Main(string[] args)
18         {
19             Company company = new Company();
20
21             company.CompanyAddorRemoveEvent += new Company.CompanyHandler(UpdateNumberOfCustomers);
22
23             company.ValCompanyName = "NP Saigon";
24             company.Customers.Add(new Customer("DC001", "Gabi", "Brazil", 11111, CustomerType.TrungThanh));
25             company.Customers.Add(new Customer("DC002", "Yasue", "Japan", 22222, CustomerType.TiemNang));
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

The program '[2976] Lab03.exe' has exited with code -1073741510 (0xc000013a).

C# Interactive (64-bit) Error List Output

Ready Ln 7 Col 1 Ch 1 INS

Add to Source Control

A/C

ENG 9:51 AM

Lab03 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU Start

Program.cs

Lab03 Lab03.Program UpdateNumberOfCustomers(Company company)

```
25 company.Customers.Add(new Customer("DC002", "Yasue", "Japan", 22222, CustomerType.TiemNang));
26 company.Customers.Add(new Customer("DC003", "Martin", "England", 33333, CustomerType.CanQuanTam));
27 company.Customers.Add(new Customer("DC004", "Holding", "England", 44444, CustomerType.KhachHangKhac));
28
29 company.CompanyInfo();
30
31 Console.WriteLine("Searching Process:");
32 Console.WriteLine(company.SearchCustomer("Gabi").ConvertToString());
33 Console.WriteLine(company.SearchCustomer("Martin").ConvertToString());
34 Console.WriteLine(company.SearchCustomer("Holding").ConvertToString());
35
36 Console.WriteLine(company.SearchCustomer(1).ConvertToString());
37 Console.WriteLine(company.SearchCustomer(2).ConvertToString());
38
39 Customer customer = company.SearchCustomer("Yasue");
40 company.RemoveCustomer(customer);
41
42 Console.WriteLine("\n\t---Danh sach khach hang sau khi loai bo 1 khach hang:---");
43 company.CompanyInfo();
44
45
46 Console.ReadKey();
47
48 }
49 }
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.4.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

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Debug Any CPU Start

Program.cs

Lab03 Lab03.Program UpdateNumberOfCustomers(Company company)

```
51 namespace MainData
52 {
53     public enum CustomerType{ TrungThanh, TiemNang, CanQuanTam, KhachHangKhac };
54
55     public class Customer
56     {
57         string CustomerID = "CS000";
58         string CustomerName = "Not Assigned";
59         string CustomerAddress = "Not Assigned";
60         int CustomerPhone;
61         CustomerType customertype = CustomerType.TrungThanh;
62
63         public Customer() { }
64
65         public Customer(string CustomerID, string CustomerName, string CustomerAddress, int CustomerPhone, CustomerType customertype)
66         {
67             this.CustomerID = CustomerID;
68             this.CustomerName = CustomerName;
69             this.CustomerAddress = CustomerAddress;
70             this.CustomerPhone = CustomerPhone;
71             this.customertype = customertype;
72         }
73
74         public string ValCustomerID
75         {
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.4.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

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C# Interactive (64-bit) Error List Output

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A/C

ENG 9:52 AM

Lab03 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU Start

Program.cs

Lab03 Lab03.Program UpdateNumberOfCustomers(Company company)

```
74 public string ValCustomerID
75 {
76     get { return CustomerID; }
77     set { CustomerID = value; }
78 }
79
80 public string ValCustomerName
81 {
82     get { return CustomerName; }
83     set { CustomerName = value; }
84 }
85
86 public string ValCustomerAddress
87 {
88     get { return CustomerAddress; }
89     set { CustomerAddress = value; }
90 }
91
92 public int ValCustomerPhone
93 {
94     get { return CustomerPhone; }
95     set { CustomerPhone = value; }
96 }
97
98 public CustomerType ValCustomerType
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

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Debug Any CPU Start

Program.cs

Lab03 Lab03.Program UpdateNumberOfCustomers(Company company)

```
98 public CustomerType ValCustomerType
99 {
100     get { return customertype; }
101     set { customertype = value; }
102 }
103
104 public void CustomerInfo()
105 {
106     string CustomerInfo = Enum.GetName(typeof(CustomerType), customertype);
107
108     if (CustomerID != "CS000")
109         Console.WriteLine("Khach Hang: {0} - ID: {1} - Address: {2} - Phone: {3} - Type: {4}.",
110             CustomerName, CustomerID, CustomerAddress, CustomerPhone, customertype);
111 }
112
113
114 public class Company
115 {
116     public List<Customer> Customers { get; set; }
117     Dictionary<CustomerType, string> customerinfo = new Dictionary<CustomerType, string>();
118
119     public delegate void CompanyHandler(Company company);
120     public event CompanyHandler CompanyAddorRemoveEvent;
121
122     string CompanyName;
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.4.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

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Debug Any CPU Start

Program.cs

Lab03 Lab03.Program UpdateNumberOfCustomers(Company company)

```
122 string CompanyName;
123 int ListOfCustomers = 0;
124
125 public string ValCompanyName
126 {
127     get { return CompanyName; }
128     set { CompanyName = value; }
129 }
130
131 public int VallListOfCustomers
132 {
133     get { return ListOfCustomers; }
134     set { ListOfCustomers = value; }
135 }
136
137 public Company()
138 {
139     Customers = new List<Customer>();
140     CompanyName = "No Assigned";
141     customerinfo.Add(CustomerType.CanQuanTam, "Can Quan Tam la nhom khach hang can duoc quan tam nhieu hon");
142     customerinfo.Add(CustomerType.KhachHangKhac, "Khach Hang Khac la nhom khach hang o phan khuc khac");
143     customerinfo.Add(CustomerType.TiemNang, "Tiem Nang la nhom khac hang quan trong voi cong ty");
144     customerinfo.Add(CustomerType.TrungThanh, "Trung Thanh la nhom khach hang trung thanh voi cong ty");
145 }
146
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

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Lab03 - Microsoft Visual Studio

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Debug Any CPU Start

Program.cs

Lab03 Lab03.Program UpdateNumberOfCustomers(Company company)

```
147 public void CompanyInfo()
148 {
149     Console.WriteLine("Cong ty TNHH {0} co {1} khach hang. Gom cac khach hang sau:",
150         CompanyName, Customers.Count);
151
152     foreach(Customer cm in Customers)
153     {
154         KeyValuePair<CustomerType, string> info = customerinfo.FirstOrDefault(o => o.Key == cm.ValCustomerType);
155         cm.CustomerInfo();
156         Console.WriteLine("---Thong Tin Kieu Khach Hang: {0}\n", info.Value);
157     }
158 }
159
160 public void AddCustomer(Customer customer)
161 {
162     Customers.Add(customer);
163     OnCompanyChanger(this);
164 }
165
166 public void RemoveCustomer(Customer customer)
167 {
168     Customers.Remove(customer);
169     OnCompanyChanger(this);
170 }
171 }
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.4.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

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C# Interactive (64-bit) Error List Output

Ready Ln 7 Col 1 Ch 1 INS Add to Source Control

A/C ENG 9:53 AM

Lab03 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU Start

Program.cs

Lab03

UpdateNumberOfCustomers(Company company)

```
173 public void OnCompanyChanger(Company company)
174 {
175     if (CompanyAddorRemoveEvent != null)
176     {
177         CompanyAddorRemoveEvent(this);
178     }
179 }
180
181 public Customer SearchCustomer<T>(T search)
182 {
183     Customer c = new Customer();
184     if (typeof(T) == typeof(string))
185     {
186         c = Customers.FirstOrDefault(o => o.ValCustomerName == search.ToString());
187         if (c != null)
188             return c;
189     }
190     else if (typeof(T) == typeof(int))
191     {
192         if (Convert.ToInt32(search) < Customers.Count)
193             return Customers[Convert.ToInt32(search)];
194     }
195     Console.WriteLine("Customer is not found");
196     return new Customer();
197 }
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

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C# Interactive (64-bit) Error List Output

Ready Ln 7 Col 1 Ch 1 INS Add to Source Control

A/C

ENG 9:54 AM

Lab03 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Debug Any CPU Start

Program.cs

Lab03 MainData.MyExtensions ConvertToString(Customer customer)

```
190 else if (typeof(T) == typeof(int))
191 {
192     if (Convert.ToInt32(search) < Customers.Count)
193         return Customers[Convert.ToInt32(search)];
194 }
195 Console.WriteLine("Customer is not found");
196 return new Customer();
197 }
198 }
199
200 public static class MyExtensions
201 {
202     public static string ConvertToString(this Customer customer)
203     {
204         string CustomerType = Enum.GetName(typeof(CustomerType), customer.ValCustomerType);
205
206         if (customer.ValCustomerID != "CS000")
207             return String.Format("Khach Hang: {0} - ID: {1} - Address: {2} - Phone: {3} - Type: {4}.",
208                 customer.ValCustomerName, customer.ValCustomerID, customer.ValCustomerAddress, customer.ValCustomerPhone, CustomerType);
209         else
210             return " ";
211     }
212 }
213 }
```

121 %

Output

Show output from: Debug

'Lab03.exe' (CLR v4.0.30319: Lab03.exe): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_MSIL\System\v4.0.0.0__b77a5c561934e089\System.dll'. Skipped loading symbols. Module is optimized and the debugger opti

The program '[2976] Lab03.exe' has exited with code -1073741510 (0xc000013a).

C# Interactive (64-bit) Error List Output

Ready Ln 199 Col 5 Ch 5 INS Add to Source Control

A/C

ENG 9:54 AM

Lab03 (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [7408] Lab03.exe Lifecycle Events Thread: Stack Frame: Application Insights

Program.cs

```
189 }
190 else if (typeof(
191 {
192     if (Convert.
193         return C
194     }
195     Console.Writelin
196     return new Custo
197 }
198 }
199
200 public static class MyEx
201 {
202     public static string
203     {
204         string CustomerT
205     }
206     if (customer.Val
207         return Strin
208     }
209     else
```

D:\Source code\C#\Lab03\Lab03\bin\Debug\Lab03.exe

Cong ty TNHH NP Saigon co 4 khách hàng. Gom cac khách hàng sau:

Khách Hàng: Gabi - ID: DC001 - Address: Brazil - Phone: 11111 - Type: TrungThanh.

---Thong Tin Kieu Khách Hàng: Trung Thanh la nhom khách hàng trung thanh voi cong ty

Khách Hàng: Yasue - ID: DC002 - Address: Japan - Phone: 22222 - Type: TiemNang.

---Thong Tin Kieu Khách Hàng: Tiem Nang la nhom khách hàng quan trọng voi cong ty

Khách Hàng: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.

---Thong Tin Kieu Khách Hàng: Can Quan Tam la nhom khách hàng can duoc quan tam nhieu hon

Khách Hàng: Holding - ID: DC004 - Address: England - Phone: 44444 - Type: KháchHangKhac.

---Thong Tin Kieu Khách Hàng: Khách Hàng Khac la nhom khách hàng o phan khuc khac

Searching Process:

Khách Hàng: Gabi - ID: DC001 - Address: Brazil - Phone: 11111 - Type: TrungThanh.

Khách Hàng: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.

Khách Hàng: Holding - ID: DC004 - Address: England - Phone: 44444 - Type: KháchHangKhac.

Khách Hàng: Yasue - ID: DC002 - Address: Japan - Phone: 22222 - Type: TiemNang.

Khách Hàng: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.

---Danh sach khách hàng sau khi loại bo 1 khách hàng:---

Cong ty TNHH NP Saigon co 3 khách hàng. Gom cac khách hàng sau:

Khách Hàng: Gabi - ID: DC001 - Address: Brazil - Phone: 11111 - Type: TrungThanh.

---Thong Tin Kieu Khách Hàng: Trung Thanh la nhom khách hàng trung thanh voi cong ty

Khách Hàng: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.

---Thong Tin Kieu Khách Hàng: Can Quan Tam la nhom khách hàng can duoc quan tam nhieu hon

Khách Hàng: Holding - ID: DC004 - Address: England - Phone: 44444 - Type: KháchHangKhac.

---Thong Tin Kieu Khách Hàng: Khách Hàng Khac la nhom khách hàng o phan khuc khac

121 %

Autos

Name	Value	Type
------	-------	------

Entire Solution 0 Errors 0 Warnings 1 Message

Code	Description	Project	File	Line	Suppression St...
IDE1005	Delegate invocation can be simplified.	Lab03	Program.cs	177	Active

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output Error List

Ready Add to Source Control

A/C ENG 9:56 AM

Lab03 (Running) - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Process: [7408] Lab03.exe Lifecycle Events Thread: Stack Frame: Application Insights

Program.cs

```
189 }
190 else if (typeof(
191 {
192     if (Convert.
193         return C
194     }
195     Console.Writelin
196     return new Custo
197 }
198 }
199
200 public static class MyEx
201 {
202     public static string
203     {
204         string CustomerT
205
206         if (customer.Val
207             return Strin
208         customer
209     else
```

D:\Source code\C#\Lab03\Lab03\bin\Debug\Lab03.exe

Khach Hang: Yasue - ID: DC002 - Address: Japan - Phone: 22222 - Type: TiemNang.
---Thong Tin Kieu Khach Hang: Tiem Nang la nhom khach hang quan trong voi cong ty

Khach Hang: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.
---Thong Tin Kieu Khach Hang: Can Quan Tam la nhom khach hang can duoc quan tam nhieu hon

Khach Hang: Holding - ID: DC004 - Address: England - Phone: 44444 - Type: KhachHangKhac.
---Thong Tin Kieu Khach Hang: Khach Hang Khac la nhom khach hang o phan khuc khac

Searching Process:

Khach Hang: Gabi - ID: DC001 - Address: Brazil - Phone: 11111 - Type: TrungThanh.
Khach Hang: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.
Khach Hang: Holding - ID: DC004 - Address: England - Phone: 44444 - Type: KhachHangKhac.
Khach Hang: Yasue - ID: DC002 - Address: Japan - Phone: 22222 - Type: TiemNang.
Khach Hang: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.

---Danh sach khach hang sau khi loai bo 1 khach hang:---
Cong ty TNHH MP Saigon co 3 khach hang. Gom cac khach hang sau:
Khach Hang: Gabi - ID: DC001 - Address: Brazil - Phone: 11111 - Type: TrungThanh.
---Thong Tin Kieu Khach Hang: Trung Thanh la nhom khach hang trung thanh voi cong ty

Khach Hang: Martin - ID: DC003 - Address: England - Phone: 33333 - Type: CanQuanTam.
---Thong Tin Kieu Khach Hang: Can Quan Tam la nhom khach hang can duoc quan tam nhieu hon

Khach Hang: Holding - ID: DC004 - Address: England - Phone: 44444 - Type: KhachHangKhac.
---Thong Tin Kieu Khach Hang: Khach Hang Khac la nhom khach hang o phan khuc khac

Diagnostic Tools

Performance session: 35 seconds

Process Memory (MB)

CPU Usage

Events Memory Usage CPU Usage

Show Events (0 of 0)

Memory Usage

Take Snapshot

Usage

Record CPU Profile

Autos

Name	Value	Type
------	-------	------

Entire Solution 0 Errors 0 Warnings 1 Message

Code	Description	Project	File	Line	Suppression St...
IDE1005	Delegate invocation can be simplified.	Lab03	Program.cs	177	Active

Call Stack Breakpoints Exception Settings Command Window Immediate Window Output Error List

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