

```

1  using MainData;
2  using System;
3  using System.Collections.Generic;
4  using System.Linq;
5
6  namespace Assignment_03
7  {
8      0 references
9      class Program
10     {
11         1 reference
12         static void UpdateNumberOfCustomers(Company company)
13         {
14             company.ValNumberOfCustomer = company.Customers.Count;
15         }
16         0 references
17         static void Main(string[] args)
18         {
19             Company company = new Company();
20
21             company.CompanyAddorRemoveEvent += new Company.CompanyHandler(UpdateNumberOfCustomers);
22
23             company.ValCompanyName = "Tau Hai Gaming";
24             company.Customers.Add(new Customer("Hoang", "T001", "TP.HCM", 0930001, CustomerType.TrungThanh));
25             company.Customers.Add(new Customer("Hung", "T002", "Binh Duong", 0930002, CustomerType.TiemNang));
26             company.Customers.Add(new Customer("Khanh", "T003", "Nha Trang", 0930003, CustomerType.CanQuanTam));
27
28             company.CompanyInfo();
29             Console.WriteLine("\n");
30
31             //Console.WriteLine("Searching Process:");
32             //Console.WriteLine(company.SearchCustomer("Hoang").ConvertToString());
33             //Console.WriteLine(company.SearchCustomer("Hung").ConvertToString());
34             //Console.WriteLine(company.SearchCustomer("Duy").ConvertToString());
35             //Console.WriteLine(company.SearchCustomer(2).ConvertToString());
36             //Console.WriteLine(company.SearchCustomer(3).ConvertToString());
37
38             Customer customer = company.SearchCustomer("Hoang");
39             company.RemoveCustomer(customer);
40
41             company.CompanyInfo();
42
43             Console.ReadKey();
44         }
45     }

```

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46 namespace MainData
47 {
48     16 references
49     public enum CustomerType { TrungThanh, TienNang, CanQuanTam, KhachHangKhac };
50     16 references
51     public class Customer
52     {
53         string CustomerID = "C001";
54         string CustomerName = "No Assigned";
55         string CustomerAddress = "No Assigned";
56         int CustomerPhone;
57         CustomerType customertype = CustomerType.TrungThanh;
58
59         2 references
60         public Customer() { }
61         3 references
62         public Customer(string CustomerName, string CustomerID, string CustomerAddress, int CustomerPhone, CustomerType customertype)
63         {
64             this.CustomerID = CustomerID;
65             this.customertype = customertype;
66             this.CustomerName = CustomerName;
67             this.CustomerAddress = CustomerAddress;
68             this.CustomerPhone = CustomerPhone;
69         }
70
71         2 references
72         public string ValCustomerID
73         {
74             get { return CustomerID; }
75             set { CustomerID = value; }
76         }
77
78         2 references
79         public string ValCustomerName
80         {
81             get { return CustomerName; }
82             set { CustomerName = value; }
83         }
84
85         1 reference
86         public string ValCustomerAddress
87         {
88             get { return CustomerAddress; }
89             set { CustomerAddress = value; }
90         }
91     }

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80     }
81     1 reference
82     public int ValCustomerPhone
83     {
84         get { return CustomerPhone; }
85         set { CustomerPhone = value; }
86     }
87     2 references
88     public CustomerType Valcustomertype
89     {
90         get { return customertype; }
91         set { customertype = value; }
92     }
93
94     1 reference
95     public void CustomerInfo()
96     {
97         string CustomerInfo = Enum.GetName(typeof(CustomerType), customertype);
98
99         if (CustomerID != "C001")
100             Console.WriteLine("Khach Hang: {0} - ID: {1} - Address: {2} - Phone: {3} - Type: {4}.",
101                 CustomerName, CustomerID, CustomerAddress, CustomerPhone, customertype);
102     }

```

```

113 1 reference
114 public Company()
115 {
116     Customers = new List<Customer>();
117     CompanyName = "No Assigned";
118     customertype.Add(CustomerType.CanQuanTam, "Can Quan Tam la khac hang can duoc quan tam tam nhieu hon");
119     customertype.Add(CustomerType.KhachHangKhac, "Khach Hang Khac la khac hang o phan khuc khac");
120     customertype.Add(CustomerType.TiemNang, "Khach Hang Tiem Nang la khac hang quan trong voi cong ty");
121     customertype.Add(CustomerType.TrungThanh, "Khanh Hang Trung Tam la khac hang trung thanh voi cong ty");
122 }
123 1 reference
124 public string ValCompanyName
125 {
126     get { return CompanyName; }
127     set { CompanyName = value; }
128 }
129 1 reference
130 public int ValNumberOfCustomer
131 {
132     get { return NumberOfCustomer; }
133     set { NumberOfCustomer = value; }
134 }
135 2 references
136 public void CompanyInfo()
137 {
138     Console.WriteLine("Cong Ty TNHH {0} co {1} khach hang. Gom cac khach hang sau:", CompanyName, Customers.Count);
139     foreach (Customer cm in Customers)
140     {
141         KeyValuePair<CustomerType, string> info = customertype.FirstOrDefault(o => o.Key == cm.Valcustomertype);
142         cm.CustomerInfo();
143         Console.WriteLine("\t->Thong tin kieu khach hang: {0}", info.Value);
144     }
145 }
146 0 references
147 public void AddCustomer(Customer customer)
148 {
149     Customers.Remove(customer);
150     OnCompanyChanger(this);
151 }
152 1 reference
153 public void RemoveCustomer(Customer customer)
154 {
155     Customers.Remove(customer);
156     OnCompanyChanger(this);
157 }
158 2 references
159 public void OnCompanyChanger(Company company)
160 {
161     if (CompanyAddorRemoveEvent != null)
162         CompanyAddorRemoveEvent(this);
163 }

```

```

161 1 reference
162 public Customer SearchCustomer<T>(T search)
163 {
164     Customer r = new Customer();
165     if (typeof(T) == typeof(string))
166     {
167         r = Customers.FirstOrDefault(o => o.ValCustomerName == search.ToString());
168         if (r != null)
169             return r;
170     }
171     else if (typeof(T) == typeof(int))
172     {
173         if (Convert.ToInt32(search) < Customers.Count)
174             return Customers[Convert.ToInt32(search)];
175     }
176     Console.WriteLine("Customer is not found");
177     return new Customer();
178 }
179 }

```

```

180 public static class MyExtensions
181 {
182     0 references
183     public static string ConvertToString(this Customer customer)
184     {
185         string CustomerType = Enum.GetName(typeof(CustomerType), customer.ValCustomerType);
186
187         if (customer.ValCustomerID != "C001")
188             return String.Format("Khach Hang: {0} - ID: {1} - Address: {2} - Phone: {3} - Type: {4}.",
189                                   customer.ValCustomerName, customer.ValCustomerID, customer.ValCustomerAddress, customer.ValCustomerPhone, CustomerType);
190         else
191             return "";
192     }
193 }

```

C:\Users\ADMIN\OneDrive\Tài liệu\Computer Science\C#\Assignment\Assignment_03\Assignment_03\bin\Debug\net5.0\Assignment_0.

Cong Ty TNHH Tau Hai Gaming co 3 khach hang. Gom cac khach hang sau:
 Khach Hang: Hoang - ID: T001 - Address: TP.HCM - Phone: 930001 - Type: TrungThanh.
 -->Thong tin kieu khach hang: Khanh Hang Trung Tam la khac hang trung thanh voi cong ty
 Khach Hang: Hung - ID: T002 - Address: Binh Duong - Phone: 930002 - Type: TiemNang.
 -->Thong tin kieu khach hang: Khach Hang Tiem Nang la khac hang quan trong voi cong ty
 Khach Hang: Khanh - ID: T003 - Address: Nha Trang - Phone: 930003 - Type: CanQuanTam.
 -->Thong tin kieu khach hang: Can Quan Tam la khac hang can duoc quan tam tam nhieu hon

Cong Ty TNHH Tau Hai Gaming co 2 khach hang. Gom cac khach hang sau:
 Khach Hang: Hung - ID: T002 - Address: Binh Duong - Phone: 930002 - Type: TiemNang.
 -->Thong tin kieu khach hang: Khach Hang Tiem Nang la khac hang quan trong voi cong ty
 Khach Hang: Khanh - ID: T003 - Address: Nha Trang - Phone: 930003 - Type: CanQuanTam.
 -->Thong tin kieu khach hang: Can Quan Tam la khac hang can duoc quan tam tam nhieu hon