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

Debug Any CPU Start

Program.cs*

Lab01 HW1.Cat nameC

```csharp
37        // Xây dựng lớp Chó
38        public class Dog
39        {
40            private string nameD = "Not Assigned";
41            private int ageD = 0;
42            private int heightD = 0;
43            private int weightD = 0;
44
45
46            public Dog(string nameD ="", int ageD=0, int heightD=0, int weightD = 0)
47            {
48                this.nameD = nameD;
49                this.ageD = ageD;
50                this.heightD = heightD;
51                this.weightD = weightD;
52            }
53
54            public void Output()
55            {
56                Console.WriteLine("\nName = {0}, \nAge = {1}, \nHeight = {2}, \nWeight = {3}", nameD, ageD, heightD, weightD);
57            }
58
```

121 %

Solution Explorer

Search Solution Explorer (Ctrl+;)

- Solution 'Lab01' (1 project)
  - Lab01
    - Properties
    - References
    - App.config
    - Program.cs

Solution Explorer | Team Explorer

Properties

Output

Show output from: Debug

'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optim
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
The program '[13496] Lab01.exe' has exited with code -1073741510 (0xc000013a).

Error List | Output

Ready

Ln 76   Col 25   Ch 25   INS

Add to Source Control

ENG   9:49 AM

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

Sign in

Debug   Any CPU   ▶ Start

Program.cs   ⊬ ×

Lab01   HW1.Dog   InputAge()

```csharp
91
92       public void InputInfo()
93       {
94           Console.Write("Input Dog Name: ");
95           nameD = Console.ReadLine();
96           InputAge();
97           InputHeight();
98           InputWeight();
99       }
100
101      public void InputAge()
102      {
103          bool isCompleted = false;
104
105          Console.Write("Input Dog Age: ");
106          string strAge = Console.ReadLine();
107
108          //Bắt lỗi khi nhập tuổi âm và > 20,
109          //Nhập sai kiểu(nhập thành ký tự)
110          try
111          {
112              ageD = int.Parse(strAge);
113
114              if (ageD <= 0 || ageD > 20)
```

121 %

Output

Show output from: Debug

'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
Exception thrown: 'System.FormatException' in mscorlib.dll
Exception thrown: 'HW1.NegativeNumException' in Lab01.exe
The program '[9544] Lab01.exe' has exited with code -1073741510 (0xc000013a).

Ready

Ln 100   Col 9   Ch 9   INS   Add to Source Control

Solution 'La'
  Solution 'La
    Lab01
      Prope
      Refer
      App.
      Prog

Solut...   Team...

Prop...   ⊬ ×

ENG   11:04 AM

```csharp
                    if (ageD <= 0 || ageD > 20)
                    {
                        throw new NegativeNumException();
                    }
                    isCompleted = true;
                }
                catch (FormatException)
                {
                    Console.Write("Input Wrong of Age! Please Reinput a number: ");

                }
                catch (NegativeNumException)
                {
                    Console.Write("This is wrong of Age. Please Reinput a number: ");

                }
                finally
                {
                    if (!isCompleted)
                    {
                        InputAge();
                    }
                }
            }
```

Program.cs

Lab01

Lab01.Program

Main(string[] args)

Soluti...
Search Solu
Solution 'Lab
Lab01
Prope
Refer
App.c
Prog

Solut...   Team...

Prop...

Output

Show output from: Debug

'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
Exception thrown: 'System.FormatException' in mscorlib.dll
Exception thrown: 'HW1.NegativeNumException' in Lab01.exe
The program '[9544] Lab01.exe' has exited with code -1073741510 (0xc000013a).

Item(s) Saved   Ln 16   Col 23   Ch 23   INS   Add to Source Control

```csharp
public void InputHeight()
{
    bool isCompleted = false;

    Console.Write("Input Dog Height: ");
    string strHeight = Console.ReadLine();

    // Bắt lỗi khi nhập số âm và chuỗi ký tự cho Height
    try
    {
        heightD = int.Parse(strHeight);

        if (heightD <= 0)
        {
            throw new NegativeNumException();
        }
        isCompleted = true;
    }
    catch (FormatException)
    {
        Console.Write("Input wrong of Height! Please Reinput a number: ");
    }
    catch (NegativeNumException)
    {
```

Output

Show output from: Debug

```
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
Exception thrown: 'System.FormatException' in mscorlib.dll
Exception thrown: 'HW1.NegativeNumException' in Lab01.exe
The program '[9544] Lab01.exe' has exited with code -1073741510 (0xc000013a).
```

```csharp
            catch (NegativeNumException)
            {
                Console.Write("This is wrong of Height. Please Reinput a number: ");
            }
            finally
            {
                if (!isCompleted)
                {
                    InputHeight();
                }
            }
        }

        public void InputWeight()
        {
            bool isCompleted = false;

            Console.Write("Input Dog Weight: ");
            string strWeight = Console.ReadLine();

            // Bắt lỗi khi nhập số âm và chuỗi ký tự cho Weight
            try
            {
                weightD = int.Parse(strWeight);
```

Output

Show output from: Debug

```
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
Exception thrown: 'System.FormatException' in mscorlib.dll
Exception thrown: 'HW1.NegativeNumException' in Lab01.exe
The program '[9544] Lab01.exe' has exited with code -1073741510 (0xc000013a).
```

```csharp
                    if (weightD <= 0)
                    {
                        throw new NegativeNumException();
                    }
                    isCompleted = true;
                }
                catch (FormatException)
                {
                    Console.Write("Input wrong of Weight! Please Reinput a number: ");

                }
                catch (NegativeNumException)
                {
                    Console.Write("This is wrong of Weight. Please Reinput a number: ");

                }
                finally
                {
                    if (!isCompleted)
                    {
                        InputWeight();
                    }
                }
            }
```

Output

Show output from: Debug

```
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
Exception thrown: 'System.FormatException' in mscorlib.dll
Exception thrown: 'HW1.NegativeNumException' in Lab01.exe
The program '[9544] Lab01.exe' has exited with code -1073741510 (0xc000013a).
```

```csharp
212         // Xây dựng lớp Mèo
213         public class Cat
214         {
215             private string nameC = "Not Assigned";
216             private int ageC = 0;
217             private int heightC = 0;
218             private int weightC = 0;
219
220
221             public Cat(string nameC = "", int ageC = 0, int heightC = 0, int weightC = 0)
222             {
223                 this.nameC = nameC;
224                 this.ageC = ageC;
225                 this.heightC = heightC;
226                 this.weightC = weightC;
227             }
228
229             public void Output()
230             {
231                 Console.WriteLine("\nName = {0}, \nAge = {1}, \nHeight = {2}, \nWeight = {3}", nameC, ageC, heightC, weightC);
232             }
233
234             public void InputInfo()
235             {
```

Output

Show output from: Debug

```
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
Exception thrown: 'System.FormatException' in mscorlib.dll
Exception thrown: 'HW1.NegativeNumException' in Lab01.exe
The program '[9544] Lab01.exe' has exited with code -1073741510 (0xc000013a).
```

Ready   Ln 16   Col 23   Ch 23   INS   Add to Source Control

```csharp
public void InputInfo()
{
    Console.Write("Input Cat Name: ");
    nameC = Console.ReadLine();
    InputAge();
    InputHeight();
    InputWeight();
}

public void InputAge()
{
    bool isCompleted = false;

    Console.Write("Input Cat Age: ");
    string strAge = Console.ReadLine();

    //Bắt lỗi khi nhập tuổi âm và > 20,
    //Nhập sai kiểu(nhập thành ký tự)
    try
    {
        ageC = int.Parse(strAge);

        if (ageC <= 0 || ageC > 20)
        {
```

```csharp
            if (ageC <= 0 || ageC > 20)
            {
                throw new NegativeNumException();
            }
            isCompleted = true;
        }
        catch (FormatException)
        {
            Console.Write("Input Wrong of Age! Please Reinput a number: ");

        }
        catch (NegativeNumException)
        {
            Console.Write("This is wrong of Age. Please Reinput a number: ");

        }
        finally
        {
            if (!isCompleted)
            {
                InputAge();
            }
        }
    }
}
```

Output

Show output from: Debug

'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
The program '[5360] Lab01.exe' has exited with code -1073741510 (0xc000013a).

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

Debug   Any CPU   Start

Program.cs

Lab01   HW1.Cat   InputAge()

```csharp
281        public void InputHeight()
282        {
283            bool isCompleted = false;
284
285            Console.Write("Input Cat Height: ");
286            string strHeight = Console.ReadLine();
287
288            // Bắt lỗi khi nhập số âm và chuỗi ký tự cho Height
289            try
290            {
291                heightC = int.Parse(strHeight);
292
293                if (heightC <= 0)
294                {
295                    throw new NegativeNumException();
296                }
297                isCompleted = true;
298            }
299            catch (FormatException)
300            {
301                Console.Write("Input wrong of Height! Please Reinput a number: ");
302            }
303            catch (NegativeNumException)
304            {
```

121 %

Output

Show output from: Debug

```
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
The program '[5360] Lab01.exe' has exited with code -1073741510 (0xc000013a).
```

Ready   Ln 242   Col 9   Ch 9   INS   Add to Source Control

Solution 'Lab'
Lab01
Prope
Refer
App.c
Progr

Solut...   Team...

Prop...

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

Debug   Any CPU   ▶ Start

Program.cs

Lab01   HW1.Cat   InputAge()

```csharp
303            catch (NegativeNumException)
304            {
305                Console.Write("This is wrong of Height. Please Reinput a number: ");
306            }
307            finally
308            {
309                if (!isCompleted)
310                {
311                    InputHeight();
312                }
313            }
314        }
315
316        public void InputWeight()
317        {
318            bool isCompleted = false;
319
320            Console.Write("Input Cat Weight: ");
321            string strWeight = Console.ReadLine();
322
323            // Bắt lỗi khi nhập số âm và chuỗi ký tự cho Weight
324            try
325            {
326                weightC = int.Parse(strWeight);
```

121 %

Output

Show output from: Debug

'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
The program '[5360] Lab01.exe' has exited with code -1073741510 (0xc000013a).

Ready   Ln 242   Col 9   Ch 9   INS   Add to Source Control

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

Sign in

Debug   Any CPU   Start

Program.cs

Lab01   HW1.Cat   InputAge()

```csharp
324         try
325         {
326             weightC = int.Parse(strWeight);
327
328             if (weightC <= 0)
329             {
330                 throw new NegativeNumException();
331             }
332             isCompleted = true;
333         }
334         catch (FormatException)
335         {
336             Console.Write("Input wrong of Weight! Please Reinput a number: ");
337
338         }
339         catch (NegativeNumException)
340         {
341             Console.Write("This is wrong of Weight. Please Reinput a number: ");
342
343         }
344         finally
345         {
346             if (!isCompleted)
347             {
```

Solution 'Lab...
Solution 'Lab
Lab01
Prope
Refer
App.
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Search Solu

Solut...   Team...

Prop...

121 %

Output

Show output from: Debug

```
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
The program '[5360] Lab01.exe' has exited with code -1073741510 (0xc000013a).
```

Ready   Ln 242   Col 9   Ch 9   INS   Add to Source Control

ENG   11:11 AM

```
                  catch (NegativeNumException)
                  {
                      Console.Write("This is wrong of Weight. Please Reinput a number: ");

                  }
                  finally
                  {
                      if (!isCompleted)
                      {
                          InputWeight();
                      }
                  }
              }

          }

          public class NegativeNumException : Exception
          {
              public NegativeNumException() { }
              public NegativeNumException(string message) : base(message) { }

          }
      }
```

```csharp
static void Main(string[] args)
{
    //Câu 1: Tạo danh sách gồm 3 chó và 2 mèo:
    int nD = 3;
    int nC = 2;

    Dog d;
    Cat c;

    object[] obj = new object[nD + nC];

    for(int i=0; i<nD; i++)
    {
        d = new Dog();
        d.InputInfo();
        obj[i] = (Dog)d;
    }

    for(int i=0; i<nC; i++)
    {
        c = new Cat();
        c.InputInfo();
        obj[nD + i] = (Cat)c;
    }
}
```

Output

Show output from: Debug

'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
The program '[5360] Lab01.exe' has exited with code -1073741510 (0xc000013a).

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

Sign in

Debug   Any CPU   ▶ Start

Program.cs

Lab01   HW1.Cat   InputAge()

```csharp
36
37          for(int i = 0; i< nD + nC; i++)
38          {
39              if(obj[i].GetType() == typeof(Dog))
40              {
41                  Console.WriteLine("\nInformation of Dog: ");
42                  d = (Dog)obj[i];
43                  d.Output();
44              }
45
46              else
47              {
48                  Console.WriteLine("\nInformation of Cat: ");
49                  c = (Cat)obj[i];
50                  c.Output();
51              }
52          }
53
54
55          Console.ReadLine();
56      }
57  }
58 }
59
```

Solution 'Lab...
    Solution 'La
    ▲ Lab01
        ▶ Prope
        ▶ Refer
            App.
        ▶ Progr

Soluti...   Team...

Prop...

121 %

Output

Show output from: Debug

'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Windows\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module is optimized and the debugge
'Lab01.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe'. Symbols loaded.
The program '[5360] Lab01.exe' has exited with code -1073741510 (0xc000013a).

Ready   Ln 242   Col 9   Ch 9   INS   Add to Source Control

ENG   11:12 AM

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

Sign in

Debug   Any CPU   Continue   Application Insights

Process: [11276] Lab01.exe

Program.cs

Lab01

```
36
37          for(int
38          {
39              if(c
40              {
41
42
43
44              }
45
46              else
47              {
48
49
50
51              }
52          }
53
54
55          Console.
56      }
```

121 %

D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe

```
Input Dog Name: a
Input Dog Age: a
Input Wrong of Age! Please Reinput a number: Input Dog Age: 2
Input Dog Height: a
Input wrong of Height! Please Reinput a number: Input Dog Height: 2
Input Dog Weight: a
Input wrong of Weight! Please Reinput a number: Input Dog Weight: 3
Input Dog Name: b
Input Dog Age: 12
Input Dog Height: 21
Input Dog Weight: 31
Input Dog Name: c
Input Dog Age: 12
Input Dog Height: 21
Input Dog Weight: 32
Input Cat Name: d
Input Cat Age: d
Input Wrong of Age! Please Reinput a number: Input Cat Age: -2
This is wrong of Age. Please Reinput a number: Input Cat Age: 2
Input Cat Height: d
Input wrong of Height! Please Reinput a number: Input Cat Height: 3
Input Cat Weight: 41
Input Cat Name: e
Input Cat Age: 12
Input Cat Height: 22
Input Cat Weight: 32

Information of Dog:

Name = a,
```

Diagnostic Tools

Diagnostics session: 1:27 minutes

1:20min   1:30m

▲ Events

▲ Process Memory (MB)

7   7

0   0

▲ CPU (% of all processors)

100   100

Summary   Events   Memory Usage   CPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

Record CPU Profile

Autos

Name	Value	Type

Autos   Locals   Watch 1

Error List

Entire Solution   ⊗ 0 Errors   ⚠ 0 Warnings   ⓘ 0 Messages   Build + IntelliSense   Search Error L

Code	Description	Project	File	Line	Suppression St...

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

Ready   Ln 242   Col 9   Ch 9   INS   Add to Source Control

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

Quick Launch (Ctrl+Q)

Sign in

Debug   Any CPU   Continue   Application Insights

Process: [11276] Lab01.exe

Program.cs

Lab01

```
36
37          for(int
38          {
39              if(c
40              {
41
42
43
44              }
45
46              else
47              {
48
49
50
51              }
52          }
53
54
55          Console.
56      }
```

121 %

D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe

```
Information of Dog:

Name = a,
Age = 2,
Height = 2,
Weight = 3

Information of Dog:

Name = b,
Age = 12,
Height = 21,
Weight = 31

Information of Dog:

Name = c,
Age = 12,
Height = 21,
Weight = 32

Information of Cat:

Name = d,
Age = 2,
Height = 3,
Weight = 41

Information of Cat:
```

Diagnostic Tools

Diagnostics session: 1:44 minutes

1:40min

▲ Events

▲ Process Memory (MB)

7   7

0   0

▲ CPU (% of all processors)

100   100

Summary   Events   Memory Usage   CPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

Record CPU Profile

Autos

Name   Value   Type

Autos   Locals   Watch 1

Error List

Entire Solution   ⊗ 0 Errors   ⚠ 0 Warnings   ⓘ 0 Messages   Build + IntelliSense   Search Error L

Code   Description   Project   File   Line   Suppression St...

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

Ready   Ln 242   Col 9   Ch 9   INS   Add to Source Control

A/C   ENG   11:14 AM

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

Quick Launch (Ctrl+Q)

Sign in

Debug   Any CPU   Continue   Application Insights

Process: [11276] Lab01.exe

Program.cs

Lab01

D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe

```
36
37      for(int
38      {
39          if(
40          {
41
42
43
44          }
45
46          else
47          {
48
49
50
51          }
52      }
53
54
55      Console.
56   }
```

121 %

```
Information of Dog:

Name = b,
Age = 12,
Height = 21,
Weight = 31

Information of Dog:

Name = c,
Age = 12,
Height = 21,
Weight = 32

Information of Cat:

Name = d,
Age = 2,
Height = 3,
Weight = 41

Information of Cat:

Name = e,
Age = 12,
Height = 22,
Weight = 32
```

Diagnostic Tools

Diagnostics session: 2:13 minutes

2:10min

Events

Process Memory (MB)

7   7
0   0

CPU (% of all processors)

100   100

Summary   Events   Memory Usage   CPU Usage

Events

Show Events (0 of 0)

Memory Usage

Take Snapshot

CPU Usage

Record CPU Profile

Autos

Name   Value   Type

Autos   Locals   Watch 1

Error List

Entire Solution   0 Errors   0 Warnings   0 Messages   Build + IntelliSense   Search Error L

Code   Description   Project   File   Line   Suppression St...

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

Ready   Ln 242   Col 9   Ch 9   INS   Add to Source Control

ENG   11:14 AM

```csharp
namespace HW2
{
    class Sport
    {
        //Khai báo các thuộc tính cần thiết
        protected string monTheThao;
        protected string time;
        protected int soluong;
        protected string loaibong;
        protected string diadiem;

        //Phương thức đa hình về số lượng khán giả
        public virtual void soluongKhanGia()
        {
            Console.WriteLine("Audience: 0");
        }

        public void nhap()
        {
            Console.Write("Input sport: ");
            monTheThao = Console.ReadLine();
            Console.Write("Input location: ");
            diadiem = Console.ReadLine();
            Console.Write("Input ball: ");
            loaibong = Console.ReadLine();
            Console.Write("Input time: ");
            time = Console.ReadLine();
            Console.Write("Input numbers of people in teams: ");
            string strSL = Console.ReadLine();
            soluong = int.Parse(strSL);
        }
    }
}
```

```csharp
        public void xuat()
        {
            Console.WriteLine("Sport = {0}, \nLocation = {1}, \nBall = {2}, \nTime = {3}, \nPeople = {4}.", monTheThao, diadiem, loaibong, time
            soluongKhanGia();
        }
    }

    class Football : Sport
    {
        public Football()
        {
            monTheThao = "Football";
            diadiem = "Ngoai Troi";
            loaibong = "Bong da";
            time = "90 minutes";
            soluong = 22;

        }

        public void nhap()
        {
            Console.WriteLine("Input info about Football:");
            base.nhap();
        }

        public void xuat()
        {
            Console.WriteLine("\nInfo of Football:");
            base.xuat();
        }

        //Phương thức đa hình về số lượng khán giả
```

```csharp
            //Phương thức đa hình về số lượng khán giả
            public override void soluongKhanGia()
            {
                Console.WriteLine("Audience: 500000");
            }

        }

        class Tennis: Sport
        {

            public Tennis()
            {
                monTheThao = "Tennis";
                diadiem = "Ngoai troi";
                loaibong = "Bong tennis";
                time = "3 sets";
                soluong = 2;
            }

            public void nhap()
            {
                Console.WriteLine("Input info about Tennis:");
                base.nhap();
            }

            public void xuat()
            {
                Console.WriteLine("\nInfo of Tennis:");
                base.xuat();
            }
```

```csharp
        public override void soluongKhanGia()
        {
            Console.WriteLine("Audience: 300000");
        }
    }

    class Volleyball: Sport
    {
        public Volleyball()
        {
            monTheThao = "Volleyball";
            diadiem = "Trong nha";
            loaibong = "Bong chuyen";
            time = "3 sets";
            soluong = 12;
        }

        public void nhap()
        {
            Console.WriteLine("Input info about Volleyball:");
            base.nhap();
        }

        public void xuat()
        {
            Console.WriteLine("\nInfo of Volleyball:");
            base.xuat();
        }

        //Phương thức đa hình về số lượng khán giả
        public override void soluongKhanGia()
        {
```

```csharp
class Volleyball: Sport
{
    public Volleyball()
    {
        monTheThao = "Volleyball";
        diadiem = "Trong nha";
        loaibong = "Bong chuyen";
        time = "3 sets";
        soluong = 12;
    }

    public void nhap()
    {
        Console.WriteLine("Input info about Volleyball:");
        base.nhap();
    }

    public void xuat()
    {
        Console.WriteLine("\nInfo of Volleyball:");
        base.xuat();
    }

    //Phương thức đa hình về số lượng khán giả
    public override void soluongKhanGia()
    {
        Console.WriteLine("Audience: 200000");
    }
}
```

```csharp
//Bài 2:
//Khai báo danh sách các môn thể thao
int nF = 1;
int nT = 1;
int nV = 1;

Football f = new Football();
Tennis t = new Tennis();
Volleyball v = new Volleyball();

object[] obj1 = new object[nF];
object[] obj2 = new object[nT];
object[] obj3 = new object[nV];

//Nhập danh sách các môn thể thao
for(int i = 0; i < nF; i++)
{
    f = new Football();
    f.nhap();
    obj1[i] = (Football)f;
}

for (int i = 0; i < nT; i++)
{
    t = new Tennis();
    t.nhap();
    obj2[i] = (Tennis)t;
}

for (int i = 0; i < nV; i++)
{
    v = new Volleyball();
```

```csharp
            for (int i = 0; i < nV; i++)
            {
                v = new Volleyball();
                v.nhap();
                obj3[i] = (Volleyball)v;
            }


            //Xuất danh sách các môn thể thao
            for (int i = 0; i < nF; i++)
            {
                f = (Football)obj1[i];
                f.xuat();
            }

            for (int i = 0; i < nT; i++)
            {
                t = (Tennis)obj2[i];
                t.xuat();
            }

            for (int i = 0; i < nV; i++)
            {
                v = (Volleyball)obj3[i];
                v.xuat();
            }

            Console.ReadLine();
        }
    }
}
```

```
D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe                    —    □    X

Input info about Football:
Input sport: Bong da
Input location: Phu Tho
Input ball: Banh bong da
Input time: 90 phut
Input numbers of people in teams: 22
Input info about Tennis:
Input sport: Quan vot
Input location: Ngoai troi
Input ball: Bong tennis
Input time: 3 sets
Input numbers of people in teams: 2
Input info about Volleyball:
Input sport: Bong chuyen
Input location: Trong nha
Input ball: Banh bong chuyen
Input time: 3 sets
Input numbers of people in teams: 12

Info of Football:
Sport = Bong da,
Location = Phu Tho,
Ball = Banh bong da,
Time = 90 phut,
People = 22.
Audience: 500000

Info of Tennis:
Sport = Quan vot,
Location = Ngoai troi,
```

```
D:\Source code\C#\Lab01\Lab01\bin\Debug\Lab01.exe

Info of Football:
Sport = Bong da,
Location = Phu Tho,
Ball = Banh bong da,
Time = 90 phut,
People = 22.
Audience: 500000

Info of Tennis:
Sport = Quan vot,
Location = Ngoai troi,
Ball = Bong tennis,
Time = 3 sets,
People = 2.
Audience: 300000

Info of Volleyball:
Sport = Bong chuyen,
Location = Trong nha,
Ball = Banh bong chuyen,
Time = 3 sets,
People = 12.
Audience: 200000
```