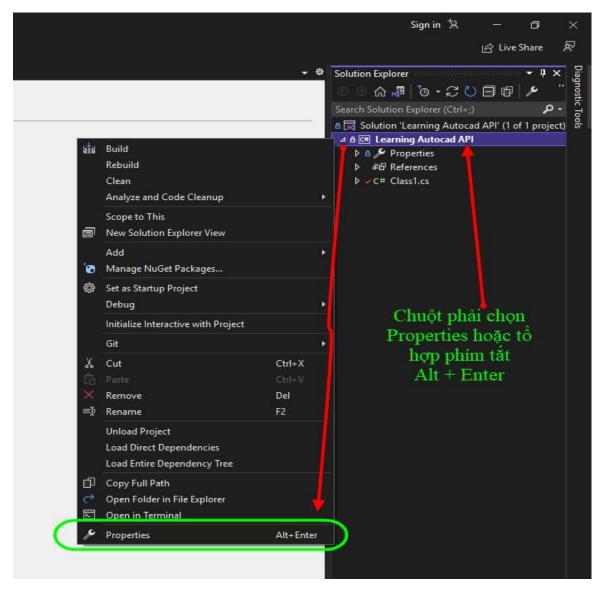
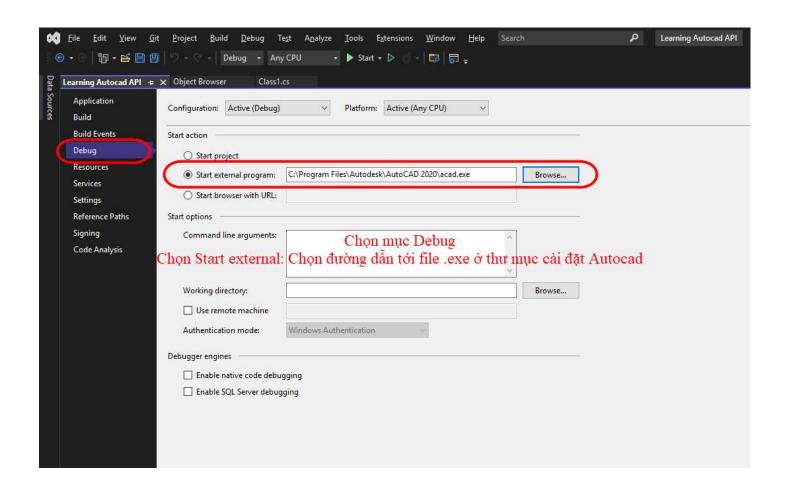
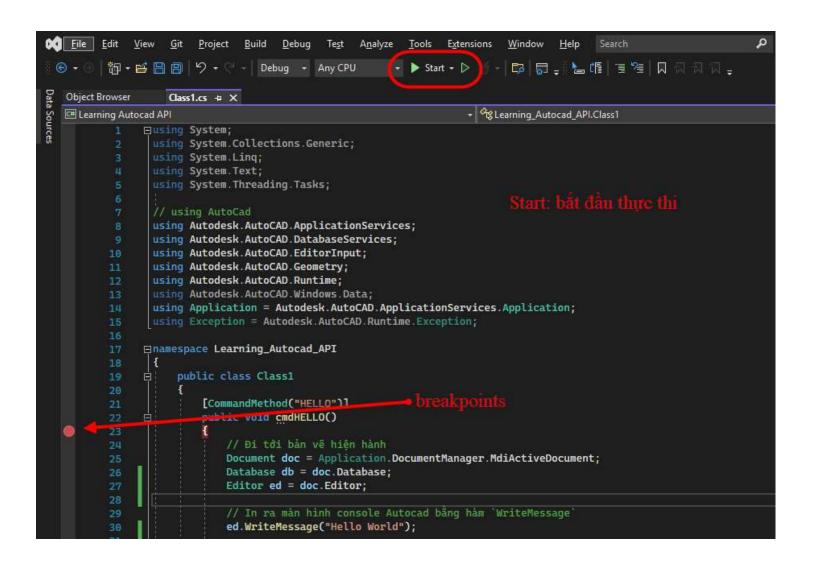
Debug Code: mục đính để hiểu code hoạt động như thế nào





Debug kết hợp breakpoints để kiểm tra, xử lý lỗi khi code



Cách tra cứu các function, method, properties, event:

Go To Definition (F12)

View in Object Browser

Autodesk AutoCAD: ActiveX Reference Guide

AutoCAD .NET Developer's Guide (code mau)

SNOOP (properties)

# Thường sẽ sử dụng:

- 1. Go To Definition (F12): để kiểm tra các parameter cần nhập có kiểu dữ liệu nào
- 2. AutoCAD .NET Developer's Guide

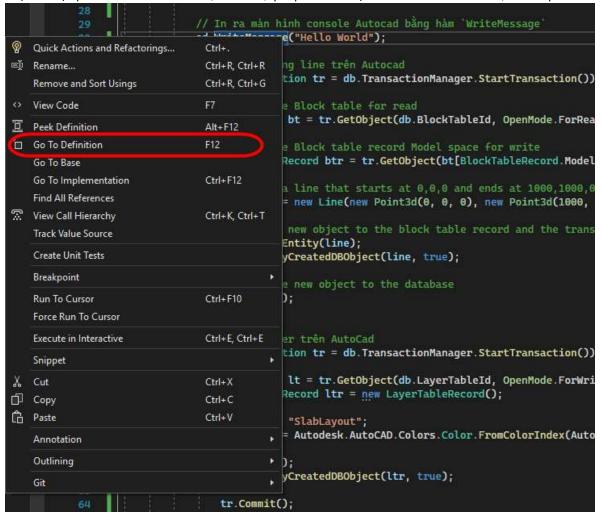
http://docs.autodesk.com/ACD/2010/ENU/AutoCAD%20.NET%20Developer%27s%20Guide/index.html

để xem code mẫu của AutoDesk

3. SNOOP: để xem tất cả các properties của đối tượng trên AutoCad

#### Go To Definition (F12)

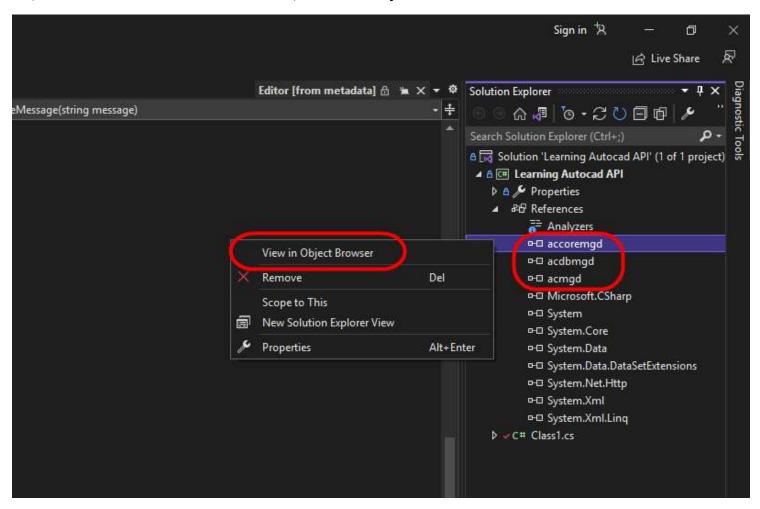
chọn chuội phải vào các function, method, properties chọn Go To Definition hoặc bấm phím tắt F12

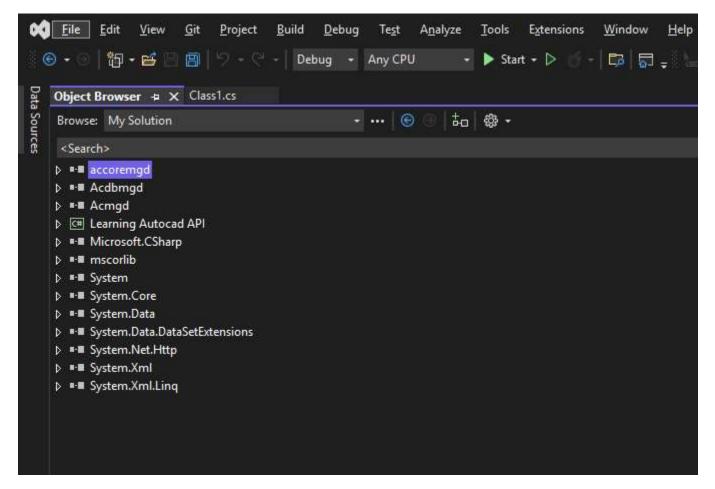


```
POTHER TOTAL CALL CALL CONTINUE TOTAL
         internal unsafe Editor(Document doc) ... //IL_000f: Expected I, but got I8
          internal unsafe void cleanUp()
         public unsafe int GetViewportNumber(Point point)
         public unsafe Point PointToScreen(Point3d pt, int viewportNumber)
-----
         public unsafe Point3d PointToWorld(Point pt, int viewportNumber)
         public unsafe Point3d PointToWorld(Point pt)
         public unsafe void WriteMessage(string message, params object[] parameter)
         public unsafe void WriteMessage(string message)
         public unsafe PromptSelectionResult GetSelection(PromptSelectionOptions options, SelectionFilter filter)
         public PromptSelectionResult GetSelection(PromptSelectionOptions options)
         public unsafe PromptSelectionResult GetSelection(SelectionFilter filter)
         public PromptSelectionResult GetSelection()
         public unsafe PromptSelectionResult SelectAll(SelectionFilter filter)
         public PromptSelectionResult SelectAll()
         public unsafe PromptSelectionResult SelectCrossingWindow(Point3d pt1, Point3d pt2, SelectionFilter filter, [MarshalAs(
         public PromptSelectionResult SelectCrossingWindow(Point3d pt1, Point3d pt2, SelectionFilter filter)
         public PromptSelectionResult SelectCrossingWindow(Point3d pt1, Point3d pt2)
         public unsafe PromptSelectionResult SelectCrossingPolygon(Point3dCollection polygon, SelectionFilter filter)
         public PromptSelectionResult SelectCrossingPolygon(Point3dCollection polygon)
         public unsafe PromptSelectionResult SelectFence(Point3dCollection fence, SelectionFilter filter)
         public PromptSelectionResult SelectFence(Point3dCollection fence)
public unsafe PromptSelectionResult SelectWindow(Point3d pt1, Point3d pt2, SelectionFilter filter)
         public PromptSelectionResult SelectWindow(Point3d pt1, Point3d pt2)
         public unsafe PromptSelectionResult SelectWindowPolygon(Point3dCollection polygon, SelectionFilter filter)
          uplic PromotSelectionResult SelectWindowPolygon(Point3dCollection nolygon)
```

## View in Object Browser

Chọn vào file .dll đã load từ trước chọn View in Object Browser

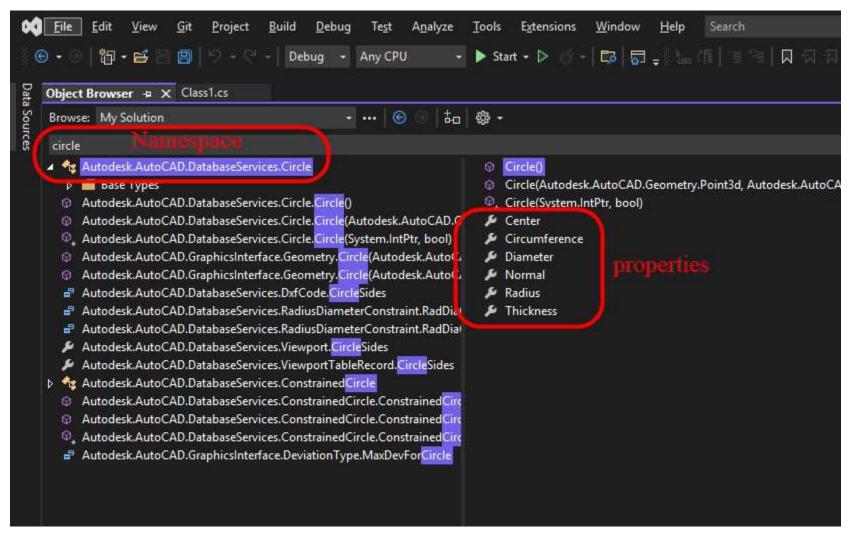




Accoremgd.dll: làm việc với các thao tác (select, pick, ...)

Acdbmgd.dll: làm việc với các đối tượng (line, polyline, circle, ...)

Acmgd.dll: làm việc với ứng dụng



Ví dụ tìm `circle` có Namespace: Autodesk.AutoCAD.DatabaseServices với các properties: Center, Diameter, Radius, ...

## Namespace dùng để using tới bản vẽ

```
Git Project Build Debug Test Analyze Tools
       Edit View
                                                              Extensions
                                                                        Window
                                                                                       Search
⊕ → ○ 🏗 → 😝 🖺 🗐 🧐 → C - Debug → Any CPU
                                                      - ▶ Start - ▷ - □ □ □ □ 電
 Object Browser
                 Class1.cs + X
 Learning Autocad API
                                                                - A Learning Autocad API. Class 1
              ⊟using System;
               using System Collections Generic;
               using System Ling;
               using System. Text;
               using System Threading Tasks;
              // using AutoCad
               using Autodesk .AutoCAD .ApplicationServices;
               using Autodesk.AutoCAD.DatabaseServices;
               using Autodesk.AutoCAD.EditorInput;
               using Autodesk AutoCAD Geometry;
        11
               using Autodesk.AutoCAD.Runtime;
        12
               using Autodesk AutoCAD Windows Data;
        13
               using Application = Autodesk.AutoCAD.ApplicationServices.Application;
              using Exception = Autodesk.AutoCAD.Runtime.Exception;
             mamespace Learning_Autocad_API
        170
                   public class Class1
```

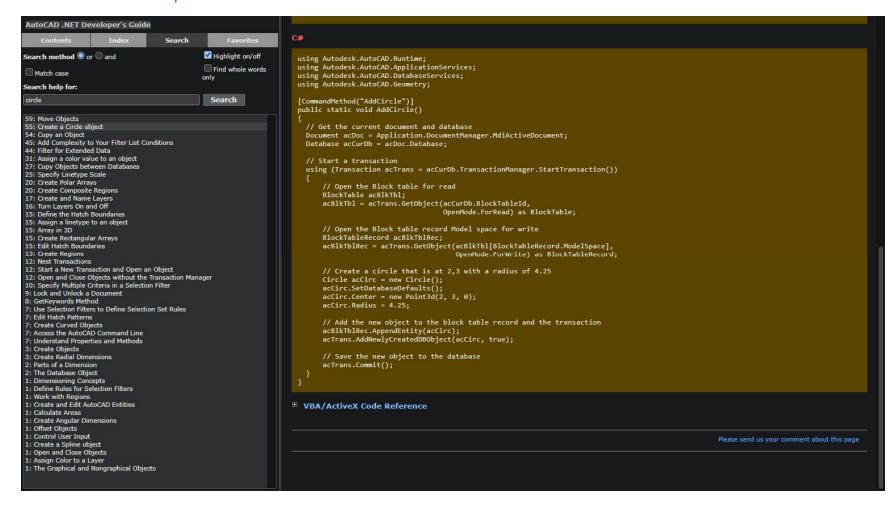
Nếu không có using namespace cũng không có vấn đề gì, chỉ là code dài hơn Ví du:

Trường hợp có using namespace

```
// using AutoCad
      using Autodesk.AutoCAD.ApplicationServices;
      using Autodesk.AutoCAD.DatabaseServices;
      using Autodesk AutoCAD EditorInput;
      using Autodesk.AutoCAD.Geometry;
      using Autodesk.AutoCAD.Runtime;
12
      using Autodesk AutoCAD Windows Data:
      using Application = Autodesk.AutoCAD.ApplicationServices.Application;
      using Exception = Autodesk.AutoCAD.Runtime.Exception;
     □namespace Learning_Autocad_API
     山
          public class Class1
              [CommandMethod("HELLO")]
              public void cmdHELLO()
     白
                  // Đị tới hận võ hiện hành
                  Document doc = Application.DocumentManager.MdiActiveDocument;
                  Database up - uoc.Database,
                  Editor ed = doc.Editor;
27
```

#### Trường hợp không có using namespace

#### AutoCAD .NET Developer's Guide



## SNOOP (properties)

Netload file CADSnoop.dll và sử dụng lệnh SNOOP

