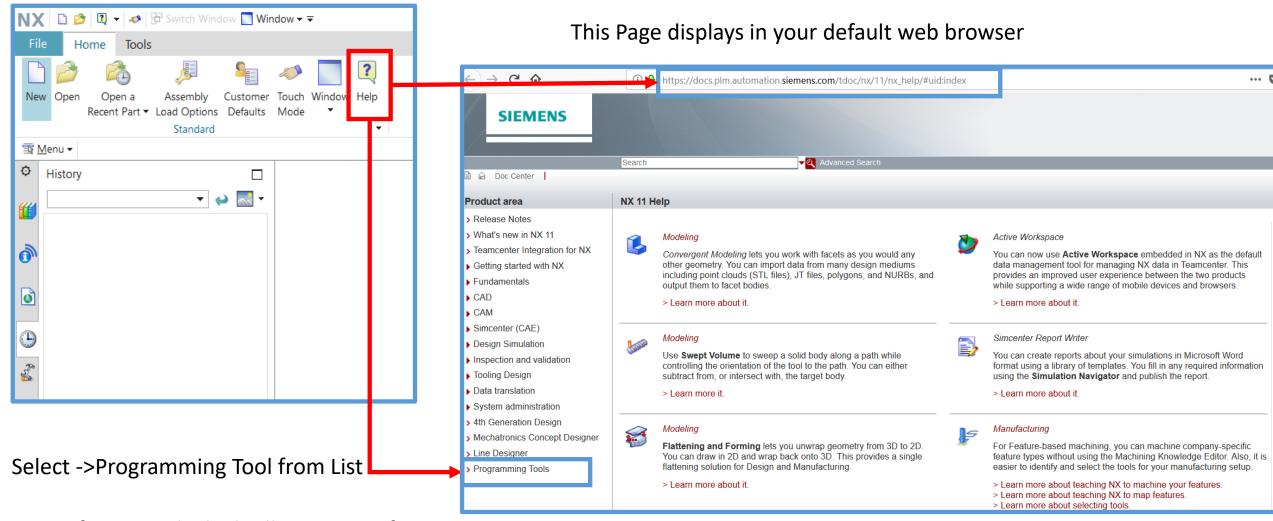
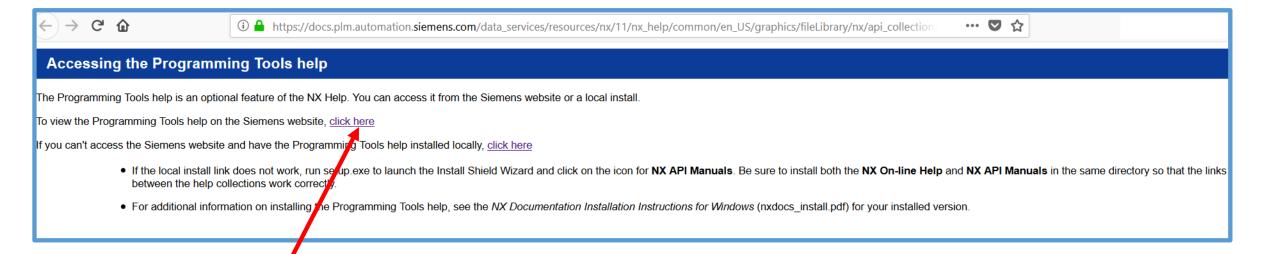
How to Open Programming help From NX

Step 1: Open NX ->Home Page ->Clip Help



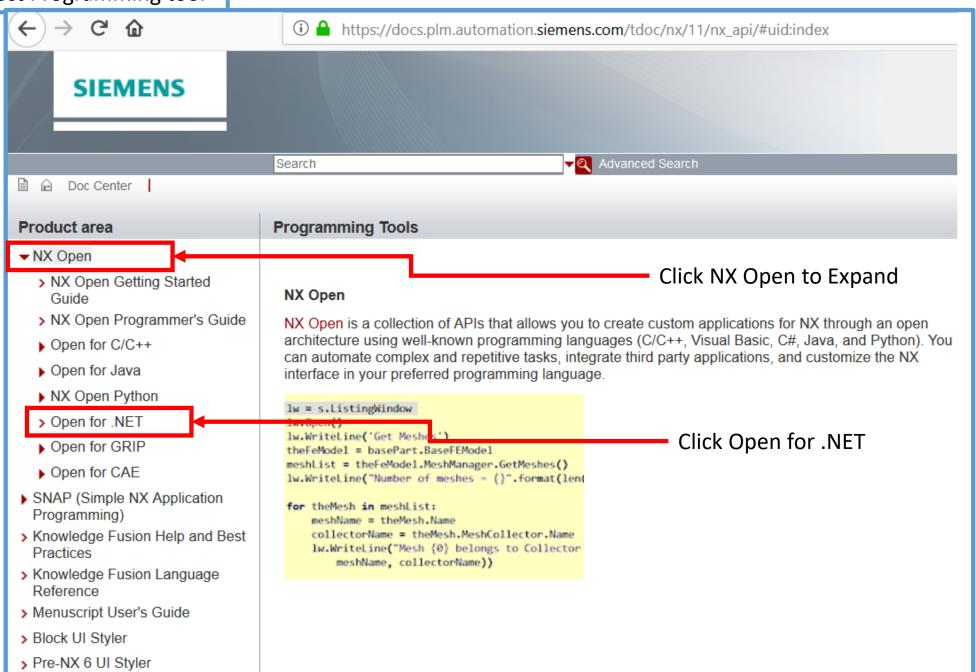
Note: If Pop up Blocked, Allow Pop Up for once

Step 2:Access Programming tools

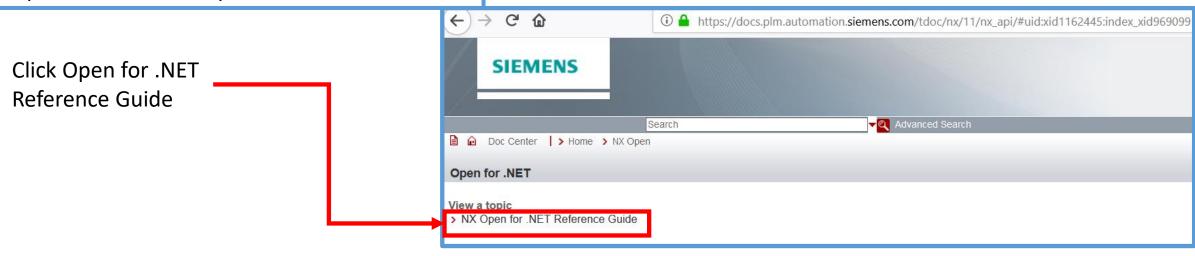


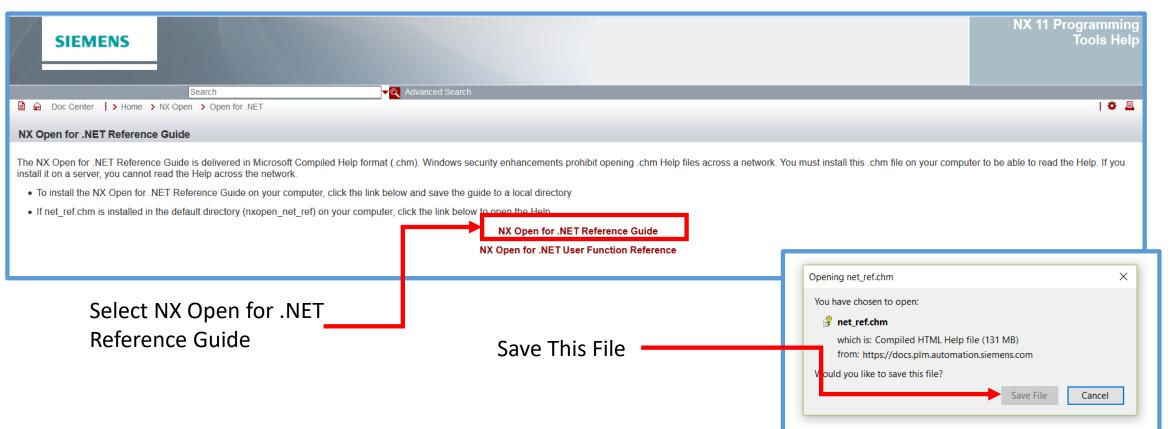
Click the link to open the NX Programming tools

Step 3: Select Programming tool

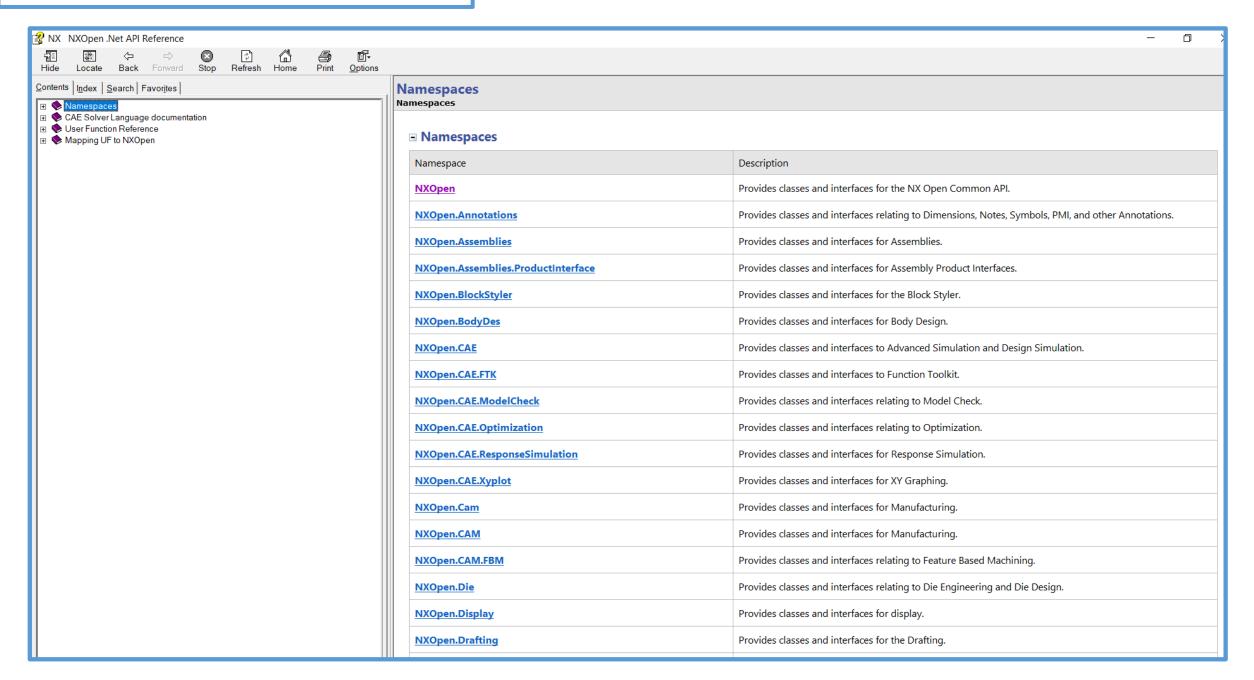


Step 4:Download NX Open .Net Reference Guide



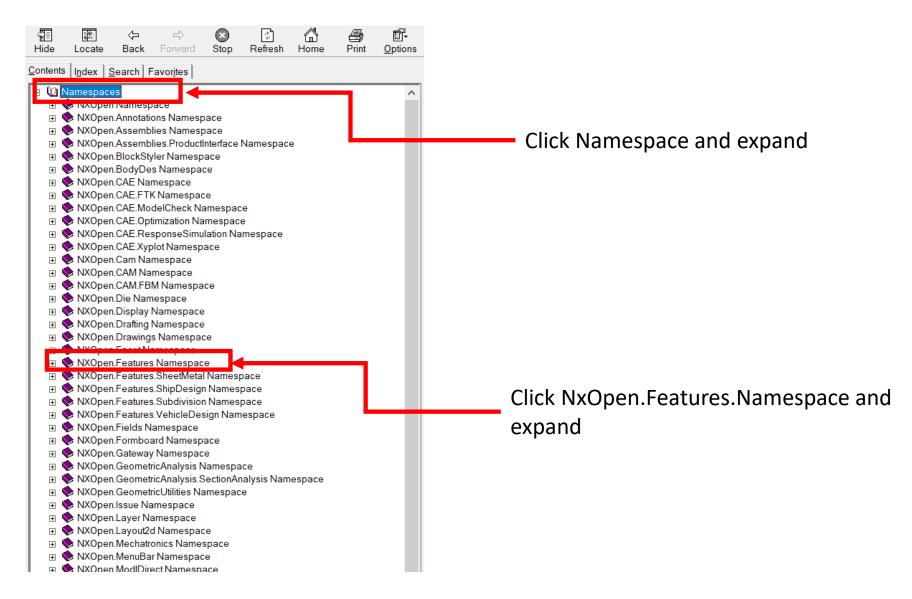


Step 5:Open net_ref.chm file from downloads



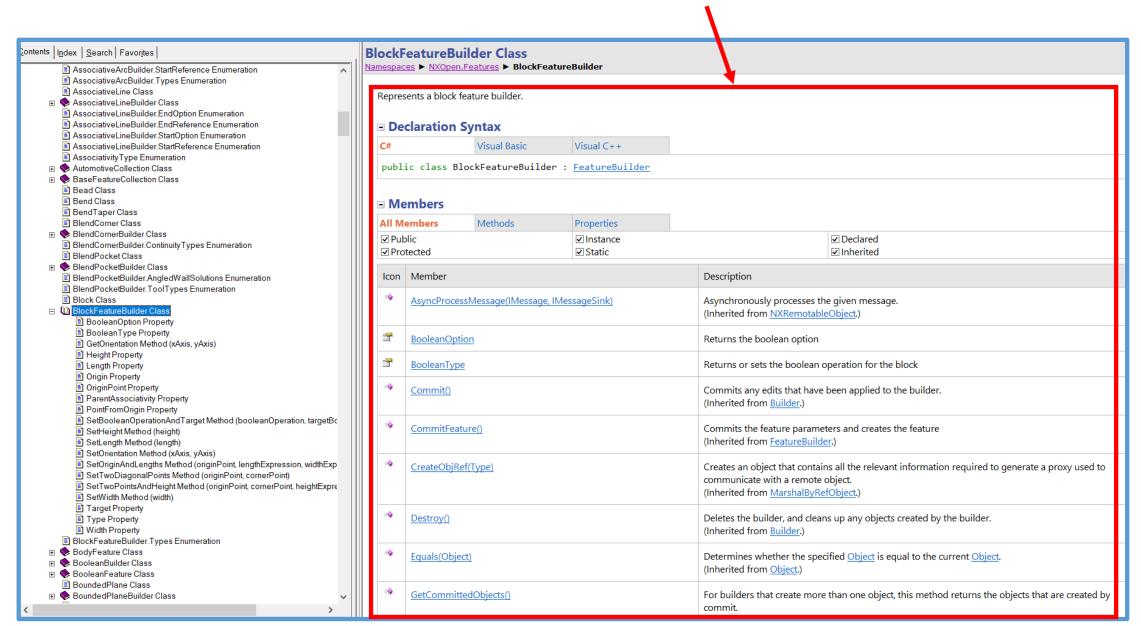
Step 6: How To use this Guide?

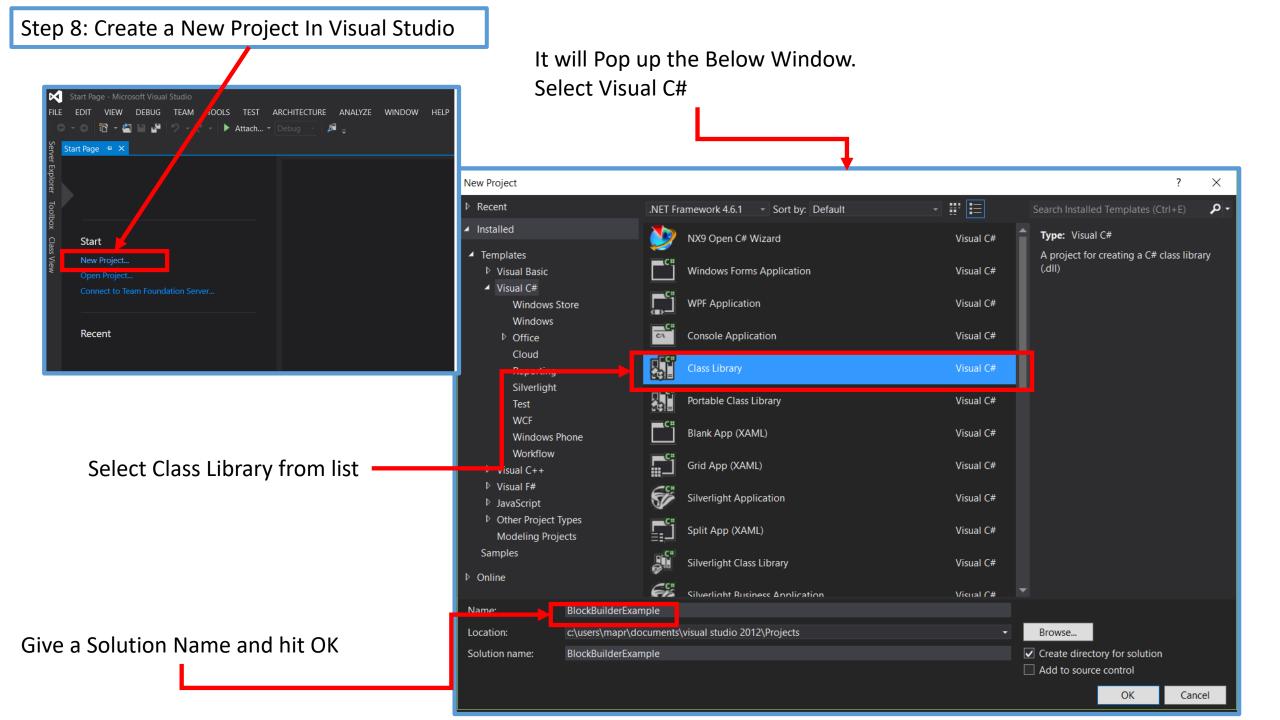
Example: How to Create a Solid Block in NX using this .net Reference Guide



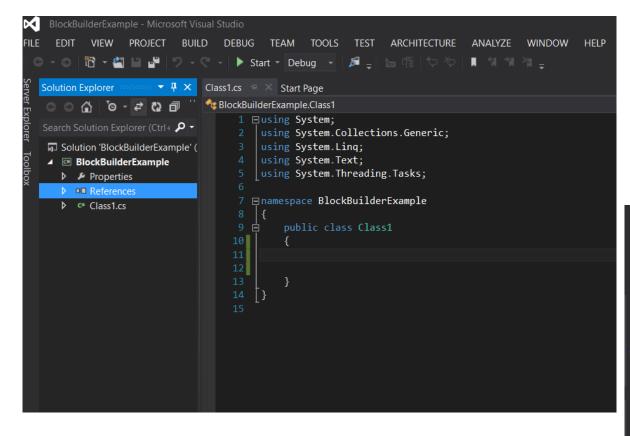
Step 7: Open the BlockFeatureBuilder Class

This Page Explains What are the Properties and Methods required to create a Block





Step 9: Default Visual Studio Project Window



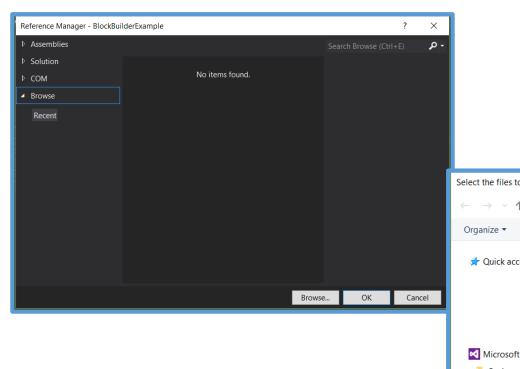
Right Click References -> Select Add Reference

```
BlockBuilderExample - Microsoft Visual Studio
                    PROJECT
                                       DEBUG
                                                         TOOLS
                                                                        ARCHITECTURE
                             Start Debug
   Solution Explorer
                                   Class1.cs - X Start Page
                                    🔩 BlockBuilderExample.Class1
                                          1 ⊟using System;
    Search Solution Explorer (Ctrl+ 🔑 🕶
                                               using System.Collections.Generic;
                                               using System.Linq;

  ■ Solution 'BlockBuilderExample' (
Toolbox
                                              using System.Text;

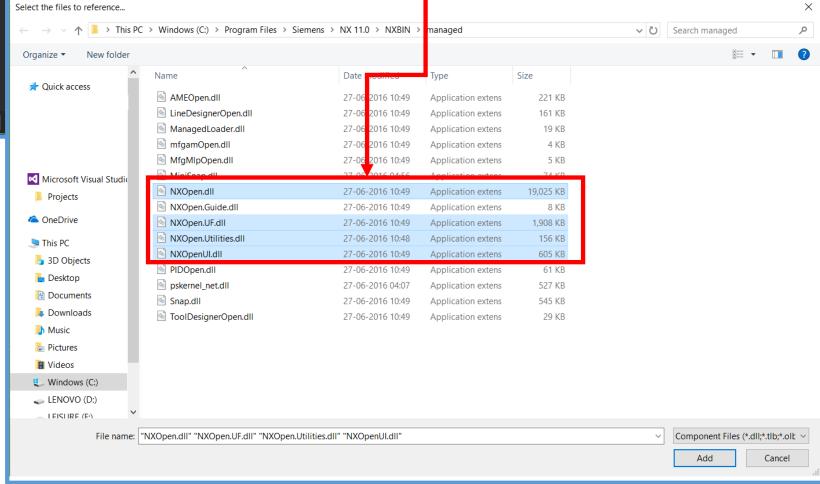
▲ ■ BlockBuilderExample
                                               using System.Threading.Tasks;
       Properties
       ▶ ■■ References
                                                                 uilderExample
                                Add Reference...
       C" Class1.cs
                                Add Service Reference...
                                                                  Class1
                                Manage NuGet Packages...
                                Scope to This
                                New Solution Explorer View
```

Step 10: Click Browse to Add Reference Files

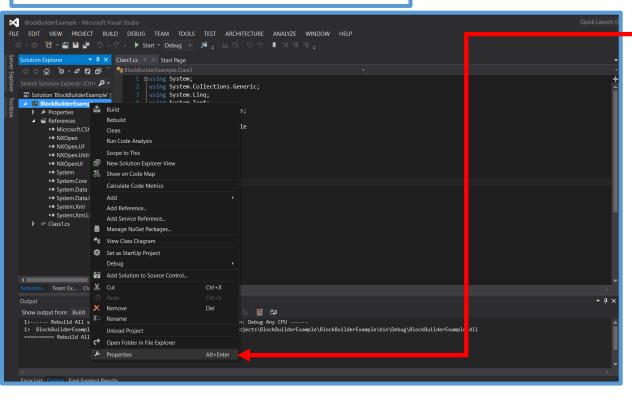


Select the 4 dll Files From below Folder

C:\Program Files\Siemens\NX 11.0\NXBIN\managed

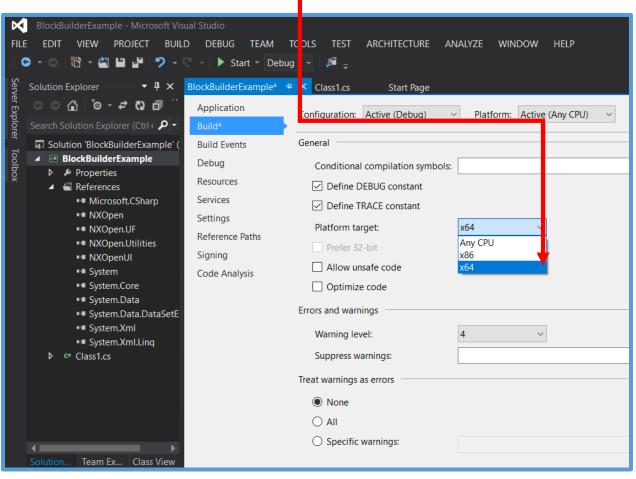


Step 11: Change Properties of Solution



Right Click the Solution and Select Properties

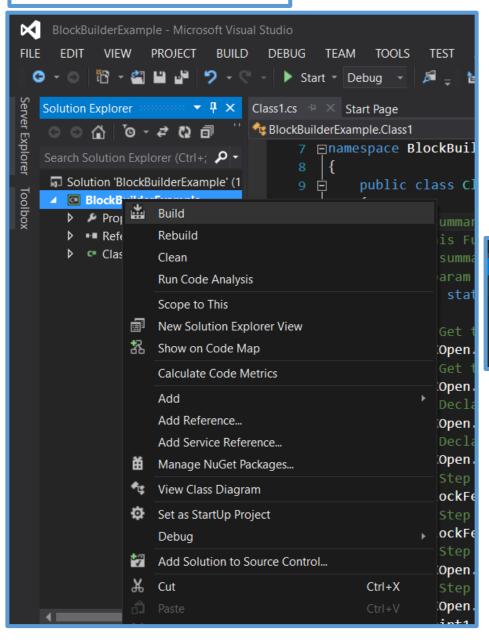
Go To Build->Change Platform Target to X64



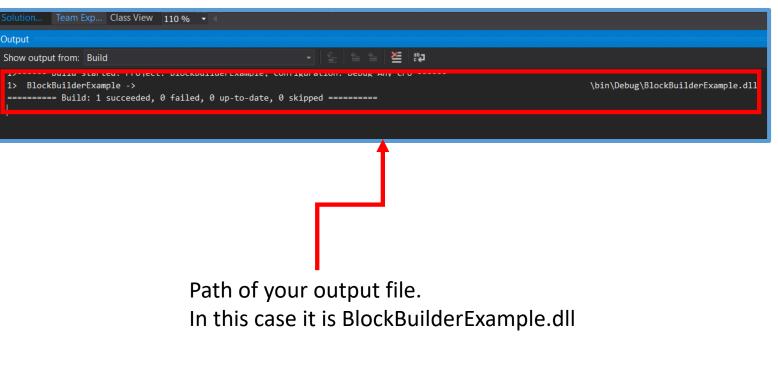
Read the Lines with Comments and Understand the Logic

```
BlockBuilderExample.Class1
   7 Inamespace BlockBuilderExample
           public class Class1
               /// <summary>
               /// This Function Creates a Block In NX using C# .net Program
               /// </summary>
               /// <param name="args"></param>
               public static void Main(string[] args)
                   NXOpen.Session theSession = NXOpen.Session.GetSession();
                   //Get the Current Work part from NX Session
                   NXOpen.Part workPart = theSession.Parts.Work;
                   NXOpen.Features.Feature nullNXOpen_Features_Feature = null;
                   NXOpen.Features.BlockFeatureBuilder blockFeatureBuilder=null;
                   //Step 1-initialize object for blockFeature
                   blockFeatureBuilder = workPart.Features.CreateBlockFeatureBuilder(nullNXOpen_Features_Feature);
                   blockFeatureBuilder.BooleanOption.Type = NXOpen.GeometricUtilities.BooleanOperation.BooleanType.Create;
                   //Step 3 -Create Point for Origin
                   NXOpen.Point3d coordinates1 = new NXOpen.Point3d(0.0, 0.0, 0.0);//This Is Value
                   //Step 4-This is Object for Point.It should be Created from Point3d coordinates.
                   NXOpen.Point point1 = null;
                   point1 = workPart.Points.CreatePoint(coordinates1);
                   //Step 5-BlockFeatureBuilder Type
                   blockFeatureBuilder.Type = NXOpen.Features.BlockFeatureBuilder.Types.OriginAndEdgeLengths;
                   //Step 6-Set OriginPoint for blockFeature
                   blockFeatureBuilder.OriginPoint = point1;
                   blockFeatureBuilder.SetOriginAndLengths(coordinates1, "100", "100", "100");
                   //Step 8-Now all Inputs are set.So we Can Commit Feature to get the output
                   NXOpen.Features.Feature feature1;//feature Object -Output
                   feature1 = blockFeatureBuilder.CommitFeature();
   44
                   blockFeatureBuilder.Destroy();
               //Unload the DLL after Execution
               // this program if you make any change with NX Session in open.
               public static int GetUnloadOption(string dummy)
                   return (int)NXOpen.Session.LibraryUnloadOption.Immediately;
```

Step 13: Build the Solution

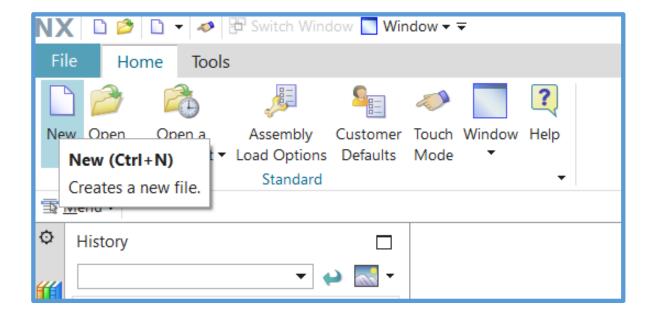


If succeeded ,Below window will be shown at the Bottom

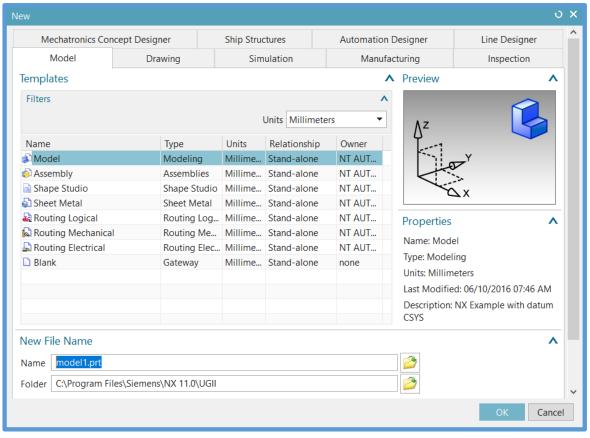


Step 14: open NX and Create file

Create a new file in NX as Below



Assign file name for model



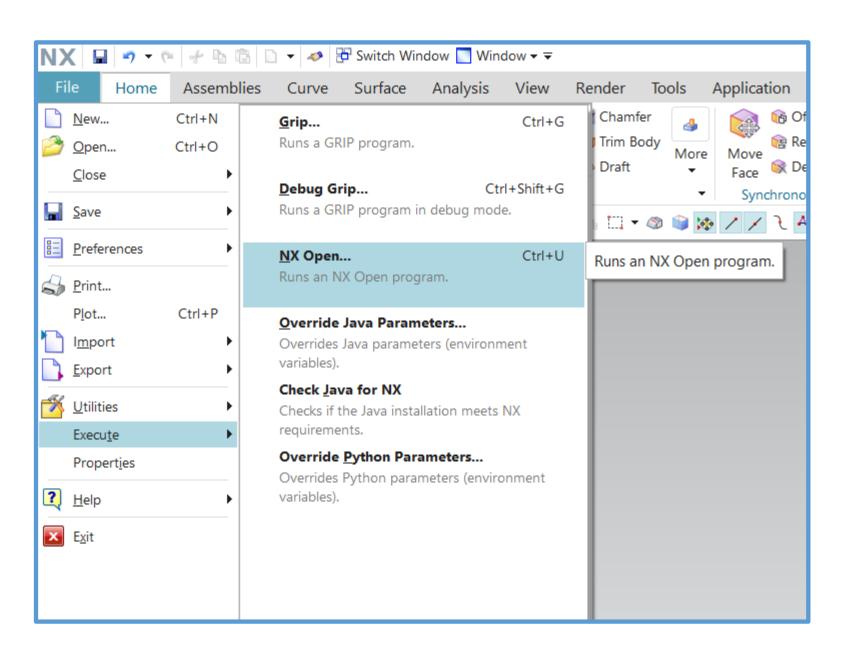
Step 15: Execute NX Open File

Method 1:

Go to File->Execute->Select NX Open

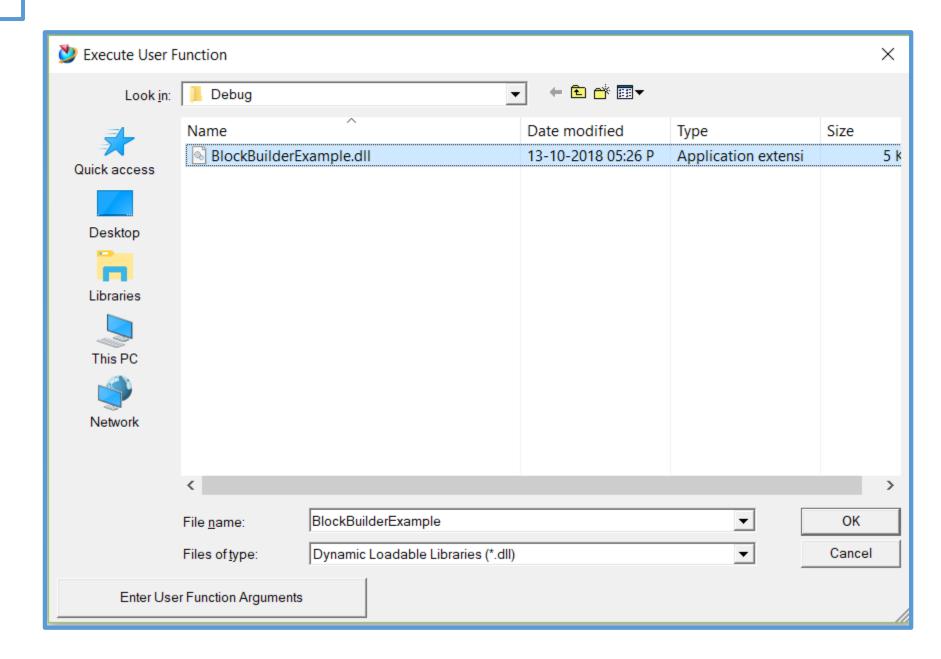
Method 2:

Cntrl+U



Step 16: Select your application

Go to the location mentioned In Step 13 and Select the Application ->Click OK to Run



Step 17: Final Output

A block Created as per the Code written in visual studio

