



جامعة الأميرة نورة بنت عبد الرحمن
Princess Nora Bint Abdul Rahman University



CS 313 Advanced Programming Language

Lab1 : Introduction to Visual C#

Computer Science Department

Spring 2015

Lab Objectives:

In this lab, the student will practice:

- ✓ How to create new projects in Visual studio.
- ✓ What the Solution Explorer is.
- ✓ How to save a project work.
- ✓ How to run a program.
- ✓ Creating simple console application “hello world”.

Web Resources:

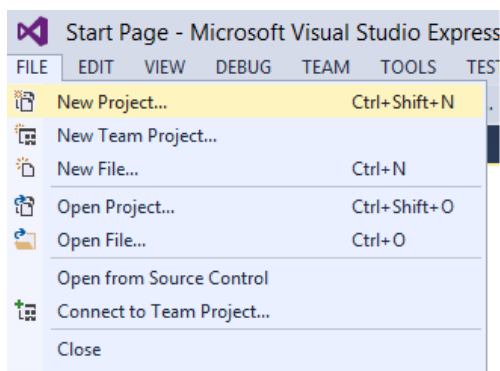
Please take a moment to visit each of these sites.

- ✓ msdn.microsoft.com/vstudio
This site is the home page for Microsoft Visual Studio. The site includes news, documentation, downloads and other resources.
- ✓ msdn.microsoft.com/en-us/vstudio/hh341490.aspx
This site provides information on the newest release of Visual C#, including downloads, Community information and resources.
- ✓ social.msdn.microsoft.com/Forums/en-US/csharpgeneral/threads
This site provides access to the Microsoft Visual C# forums, which you can use to get your Visual C# language and IDE questions answered.
- ✓ msdn.microsoft.com/en-us/magazine/default.aspx
This is the Microsoft Developer Network Magazine site. This site provides articles and code on many Visual C# and .NET app development topics. There is also an archive of past issues.

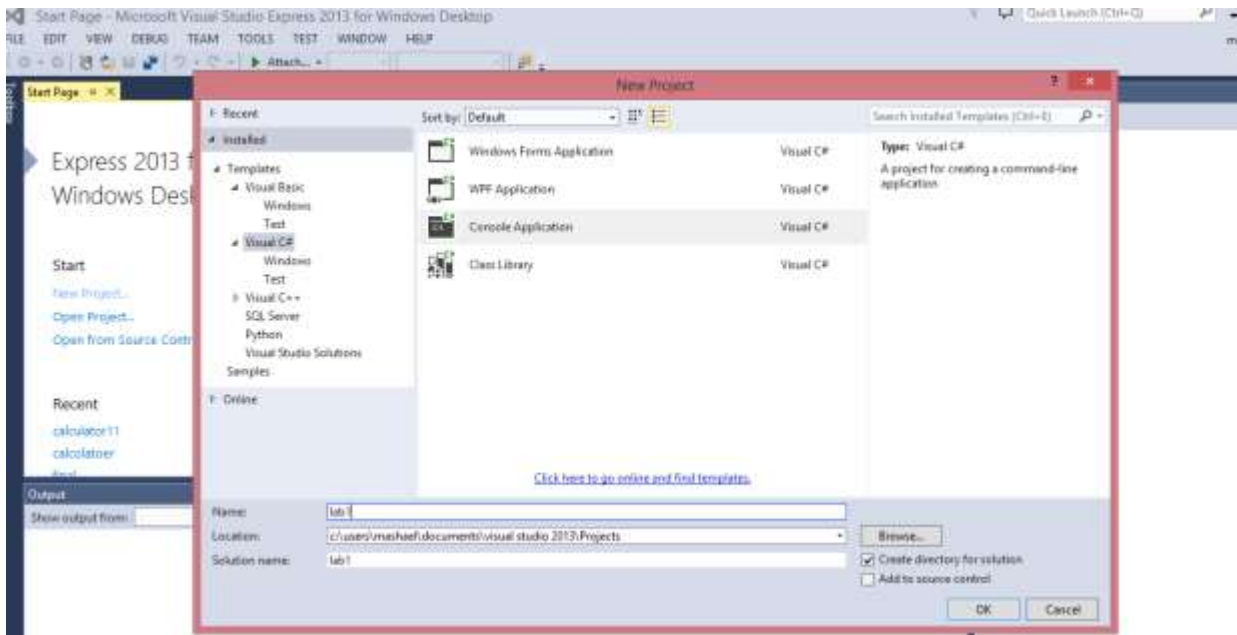
Getting started :

Step 1: Open MVS (Microsoft Visual Studio) From the start =>All Programs menu, select “Microsoft Visual Studio 2012”.

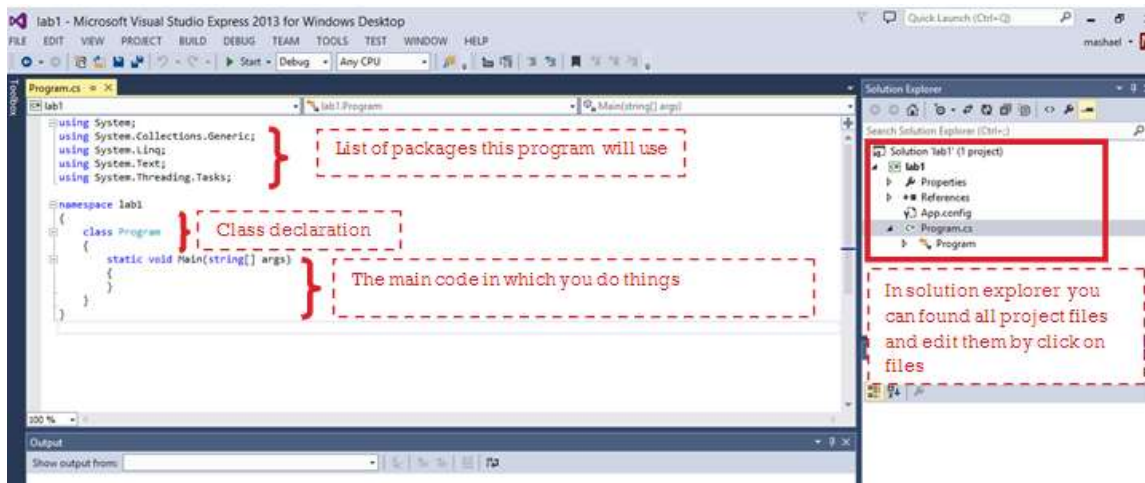
Step 2: Create a new project:



Step 3: Choose C# language and create a new console application:



Here you are, the console application after being created:



Lab Exercise 1:

Problem Description

Create simple console application that display hello world.

Sample output

```
Hello World
```

Code Skelton

```
// call namespace System  
  
//creat your namespace and class  
  
//create your main method  
  
// print "Hello world" on a separet line
```

Follow-up Questions and Activities

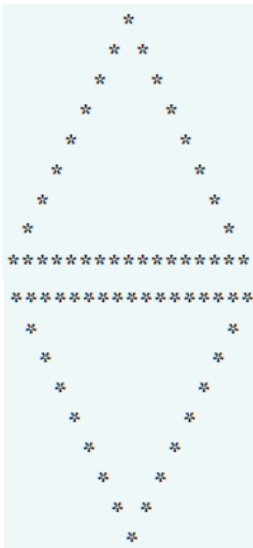
Modify your code to display the following shape (using asterisks) such that it appears on the lines following your “:Hello World” message.

```
* * * * * * * * * *  
* * * * * * * * * *  
* * * * * * * * * *  
* * * * * * * * * *  
* * * * * * * * * *
```

Assignment Problem(s)

Q1: More shapes

1. Write a program that it prints two triangles (each on a new line). The triangle should have a base containing 17 asterisks.



Q2: Program output

What do the following code segments display?

a)

```
Console.Write( "*" );  
Console.WriteLine( "****" );  
Console.WriteLine( "*****" );  
Console.Write( "*****" );  
Console.WriteLine( "***" );
```

b)

```
Console.WriteLine( "{0}\n{1}\n{2}", "*", "****", "*****" );
```

