

Sample Application for WP :

Name of Experiment: Hello World	Exp No-WP1
Background: Student should require a basic knowledge of VB or C#.	
Summary: After performing, this experiment student should be able to understand the proper flow of development of WP7 application by writing the program, debugging and deploying it on the emulator or target device.	
Learning Objective: To explain the working of WP7 by writing Hello World Program.	
Target Platform: This application is tested on Windows Phone Emulator.	
Procedure: Step1. Open Visual Studio 2010 Express for Windows Phone. Windows starts the IDE for you. [Refer fig no1] Step2. Choose File ->New Project. We will see the new project dialog box shown in Fig 1. As shown in the figure, the two types of application available are Silver light application for Windows Phone and XNA game for Windows Phone. We need to select Silver light for Windows Phone under palette Visual C#. [Refer fig no 2] Step3. Select Windows Phone Application from the template list .We will see the description of the project in the right pane of the New Project dialog box as shown in Fig 2. Step4. Type the Name of the application Hello World in the name field. Step5. Change the Location and Solution Name field entries if needed, or else it would be default directory during the installation of Visual Studio 2010. Step6. Click OK .Visual Studio creates the project structure and generates a code skeleton with default setting and values as shown in Fig 3.Solution Explorer shows the files that the IDE creates for you based on the Windows Phone Application template.[Refer fig no 3] Step7. Select the StackPanel->Application Title->under TextBlock change the Text field as Home Screen. [Refer fig no 4] Step8. Do similar exercise, StackPanel->Page Title->under TextBlock change the Textfield as Welcome Page. [Refer fig no 5] Step9. Now ,choose Toolbox from left corner of the Screen and pick and drop the Text Block on the content panel.[Refer fig no 6] Step10. Change some properties of the Text Block object from the list given at lower right corner of the Visual Studio IDE 2010. As, Set the Text Block content as “textblock1” and Text field as “Hello World”. [Refer fig no 7] Step11. Save all the changes that we have made by simply clicking the Alt+S or Save option from the above pallete.	

Step12. Go to the Debug option from the menu and click on the start Debug.

Step13. An emulator will start after few min and the Home Screen page is shown to you.[Refer fig no 8]

Step14. By this way, a Hello World Program can be deployed on the WP7.

Step15. To deploy the Hello World program on Windows Phone device [Refer Chapter 2].

Source Code	Comments
<pre>using System.Windows; using Microsoft.Phone.Controls; namespace Hello_World { public partial class MainPage : PhoneApplicationPage { // Constructor public MainPage() { InitializeComponent(); } } } <!--TitlePanel contains the name of the application and page title--> <StackPanel x:Name="TitlePanel" Grid.Row="0" Margin="12,17,0,28"> <TextBlock x:Name="ApplicationTitle" Text="Home Screen" Style="{StaticResource PhoneTextNormalStyle}"/> <TextBlock x:Name="PageTitle" Text="Welcome Page" Margin="9,-7,0,0" Style="{StaticResource PhoneTextTitle1Style}"/> </StackPanel> <!--ContentPanel - place additional content here--> <Grid x:Name="ContentPanel" Grid.Row="1" Margin="12,0,12,0"> <TextBlock Height="60" HorizontalAlignment="Left" Margin="141,75,0,0" Name="textBlock1" Text="Hello World" VerticalAlignment="Top" Width="163" /> </Grid> </Grid></pre>	<p>← using Microsoft.Phone.Controls</p> <p>← Text fields “Home Screen”</p> <p>← Text field “Welcome Page”</p> <p>← Text field “Hello World”</p>

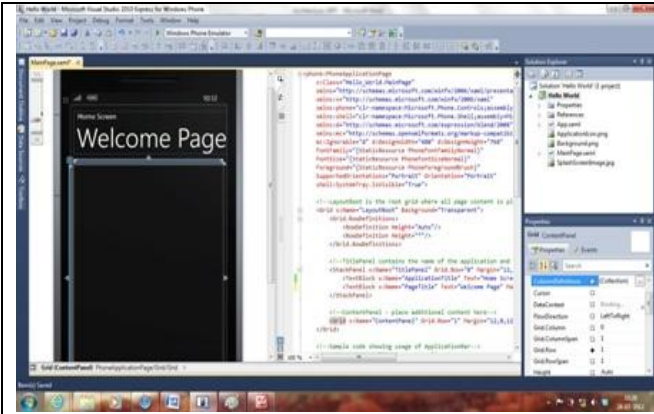


Fig no 5 Content Panel View

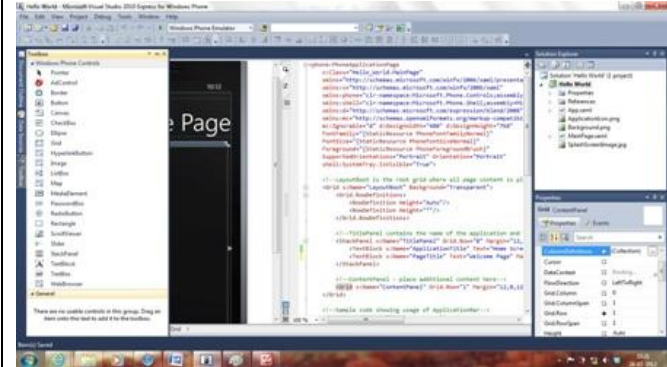


Fig no 6 Toolbox Selection

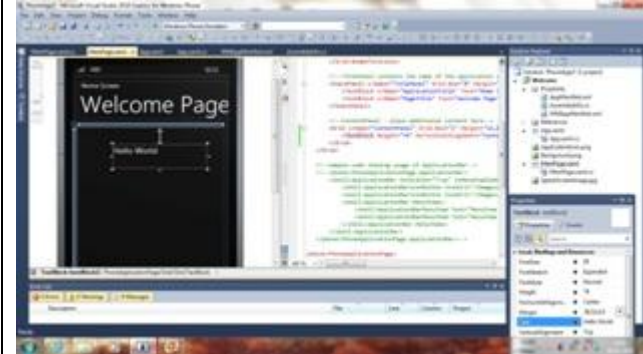


Fig no 7 Dragging the Text Block in Content Panel

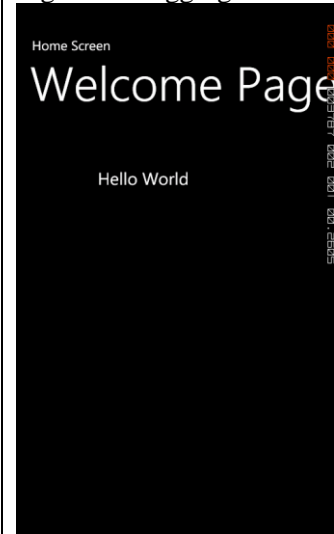


Fig no 8 Output Screen

Observations:

It should be noted by developer that for any kind of WP7 application, steps (1-6) need to be repeated.

REFERENCES

- [1] Overview on Windows Phone [http://msdn.microsoft.com/en-us/library/ff402531\(v=vs.92\).](http://msdn.microsoft.com/en-us/library/ff402531(v=vs.92).)
- [2] Visual Studio 2010 [http://msdn.microsoft.com/en-us/library/ff630878\(v=VS.92\).aspx](http://msdn.microsoft.com/en-us/library/ff630878(v=VS.92).aspx).
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