## IV. Today A203CDE task(s):

**HomeWork – has anyone completed all of the Xamarin.Essentials last week ?**

**If not – please do, it's called "Essentials" for a reason**

A brief recap: **Xamarin Feature Guides**

https://docs.microsoft.com/en-gb/xamarin/essentials/?context=xamarin/xamarin-forms

The accompanying "Deep Dive" tutorial will follow UWP, Android (**Android: Deep Dive**) or iOS (**iOS – Deep dive**) routes – chose yours:

I expect you to show me your work completed: **Xamarin.Forms Quickstart Deep Dive**

https://docs.microsoft.com/en-gb/xamarin/get-started/quickstarts/deepdive?pivots=windows

An introduction to the Model-View-Controller (MVC) pattern is there :

https://docs.microsoft.com/en-gb/xamarin/ios/get-started/hello-ios-multiscreen/hello-ios-multiscreen-deepdive

an introduction to the Model-View-View-Model (MVVM) pattern is there:

https://docs.microsoft.com/en-gb/xamarin/xamarin-forms/xaml/xaml-basics/data-bindings-to-mvvm

The Following Sessions – CAN we complete it in a given time (and @HOME before next class )?

We will be looking at something new next few weeks. Just ask yourself if you can know the difference between ASMX and REST service? Time to explore!

For an introduction to cross-platform web service consumption on the Xamarin platform, see Introduction to Web Services: https://docs.microsoft.com/en-gb/xamarin/cross-platform/data-cloud/web-services/index

When you learn the theory, consider the examples:

1. **Understanding the Sample**
   https://docs.microsoft.com/en-gb/xamarin/xamarin-forms/data-cloud/walkthrough
   Make sure you have completed this example – you may need it later!

2. **Consuming Web Services**
   https://docs.microsoft.com/en-gb/xamarin/xamarin-forms/data-cloud/consuming/

3. **Synchronizing Offline Data with Web services (Azure Mobile Apps)**
   https://docs.microsoft.com/en-gb/xamarin/xamarin-forms/data-cloud/sync/azure-mobile-apps

4. **Sending Push Notifications from Azure Mobile Apps**
   https://docs.microsoft.com/en-gb/xamarin/xamarin-forms/data-cloud/push-notifications/azure

**NB:** Using the emulator, applications can be developed and tested locally, without creating an Azure account. You can find out more :  https://docs.microsoft.com/en-us/azure/cosmos-db/local-emulator