Assignment: Clarity Leaflet
Week 2 – 7th/05/2018

Evaluation of different kernels:

Features	F#(Mwana, Andre)	C#(Mohamed, Mostafa)	Python(Omer)	Simple Kernel (Thanos, James)
Errors	• Squiggly (red) highlighting for error • When you hover over errors (An explanation of *why* there is an error and suggestion of how to *fix* the error)	• Errors reported to the terminal however not displayed in notebook • No suggestion on how to fix the error	• Error only identified after running • Only 1st error encountered displayed at a time (suggests analysis is line-by-line) • No suggestion on how to fix the error	
Intellisense	• Present	• Not present	Present	
Syntax Highlighting	• Syntax highlight occurs on F# data types (Keywords, strings, characters etc)	• Not present	• Not present	
Console Interaction		• Not present		
Container Structure		• Has Docker container structure		
Code Structure		• Object Oriented • Different classes in separate files		

Project Scope:
In 9 weeks develop a C# kernel onto of the current *icsharp repo* with syntax highlighting, intellisense along with a couple of C# notebooks showcasing the kernel.

Project Requirements:
Based on the evaluation above we recommend the following

Core Requirements
C# Kernel
Syntax Highlighting on C# data types
Error display, highlighting, suggestion
Intellisense
C# notebook (unique and cool)

Project Roles and Responsibilities:

Project Role	Name	Responsibility	
Team Lead/Coordinator		Organises meeting, keeps team on schedule of deliverables, coordinates w/ dev leads	Mwana, Andre, Mohamed, Mostafa, Thanos, James
Development Leads(Kernel)		Ensure each team member is contributing and everyone has a specific assignment on Kernel, keeps deliverable schedule	
Development Lead (Notebook)		Ensure each team member is contributing accordingly and everyone has a specific assignment on Notebook, keeps deliverable schedule	
Developers		Coding ☺	All
*All Team members are effective developers regardless of Lead Role			