1. **A point-form list of the steps required to create a new project in Visual Studio, add new files, compile and run a command line program.**

**New Project**

* File
* New
* Project

**Add New Files**

* In the solution explorer window on the right hand side.
* Right click on the heading of type of file you would like to add.
* Click “Add”
* Click “New Item”

**Compile and Run Command Line Program**

* Add a new source code file.
* Add the following code or any working code.

int main()

{

return 0;

}

* Click the debug menu.
* Click start without debugging.

1. **A point-form list of the steps required to create a break-point location in the program, and run the program in using Visual Studio’s Integrated debugging system so that program execution stops at the nominated point.**

* On the left hand side of the editor, there will be a set of line numbers.
* To the left of the line numbers, there is a slight colour change(usually gray for standard white theme) which runs vertically with the numbers.
* Click in this section and a red filled circle will appear. This has set a break point in the code.
* For the program to stop at this line, ensure that you run with debugging.

1. **Note how to inspect the value of variables during debugging**

* Debug a program until it reaches a breakpoint.
* In the bottom left hand corner of the screen, there should be a window called “Autos”. If there isn’t, Press Ctrl+Alt+V then A. To enable this window.
* You can now see the value of the variables which are in scope.

**Spike No. :** 3

**Title:** Intro to Visual Studio

**Author:** Parth Madhani , 101901858

**Goals / deliverables:**

* + Comparison Report

**Technologies, Tools, and Resources used:**

* Visual Studio 2017 IDE
* Canvas

**Tasks undertaken:**

* Writing down all the functionality with knowledge gaps (new project, new files, debugger etc.).
* Search help section to ensure the different ways
* Write down easy to understand steps for report.

**What we found out:**

I found out how to use the Visual Studio IDE effectively to create projects, work with different files/resources and use the debugger in order step through the software so as to watch how the code manipulates the underlying data so one can find errors.