**Excursive 1.2:**

**3.d.2.a – Explain what each of IL line of code does:**

.method private hidebysig static int32 Add(int32 a,

int32 b) cil managed

{

// Code size 9 (0x9)

.maxstack 2

.locals init (int32 V\_0)

IL\_0000: nop

// performs an operation without behavior

IL\_0001: ldarg.0

// Loads the argument at index 0 onto the evaluation stack.

IL\_0002: ldarg.1

// Loads the argument at index 1 onto the evaluation stack.

IL\_0003: add

// Adds two values and pushes the result onto the evaluation stack.

IL\_0004: stloc.0

// Pops the current value from the top of the evaluation stack and stores it into the local variable

IL\_0005: br.s IL\_0007

// Branches to a target instruction at the specified offset IL\_0007

IL\_0007: ldloc.0

// Loads the local variable at index 0 onto the evaluation stackldloc.0

IL\_0008: ret

} // end of method Clac::Add

**3.e.ii – You got 2 files; can you explain what do they contain?**

Calc.il – includes metadata version v4.0.30319, all class members and assembly code

Calc.res – includes all resources that will be available and use for running the \*.il file

**3.g.iii.1 – Compile the code using csc program.cs / out:calc.exe – Can you explain the error?:**

This is a result of program.cs that calls to functions from calc and since it cannot recognize that functions we get an error

**3.g.iv.1 Try to compile the code again using csc program.cs /addmodule:calc.netmodule /out:calc.exe – Can you explain the error?:**

This is a result of declaration of class as private and not public

**3.g.x.3 Open Calc.exe using ildasm – Can you explain what you see? :**

Pressing on Ctrl-m is retrieving all the meta data from calc.exe