

Assignment 4: Code Generation:

****CheckList:**

1_ Memory allocation: Memory can be allocated for all primitive types, objects, arrays of primitives and array of objects.

2_ No function support implemented except for main function.

3_ All statements are supported.

4_ All access to aggregate data types is supported.

5_ All complex expression cases listed are supported.

****Structure Description:**

1_ CodeGenerator.py is a the code generator visitor. It uses a component MoonGateway that manages registers as well as generating the actual Moon code.

2_ Extra phase is added from previous assignment to decorate the symbol tables with offset and size information.

And code generation phase that traverses the AST is separate from semanticChecker visitor.

3_ Tools used were the Moon executable and Moon lib.m only.