**Course:** ECE-T580 Compiler Design

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**Project: LLVM Tutorial**

1. **Project implementation and output:**

The function getInstructionCount() was implemented to get the number of lines of instructions.

Code snippet:

Text

Description automatically generated

Figure 1: Functionality code snippet

The output is captured as following:

**Text

Description automatically generated**

Figure 2: Program output

After iterating through the function list, the two functions were “main” and “sum” and the number of lines of instructions in each function were both 8.

1. **Verify the correctness of the output:**

By inspecting the two files: main.ll and sum.ll, it can be easily inspected that each function has 8 lines of instructions inside its function definition.

Text

Description automatically generated

Figure 3: Function main() code inspection

Text

Description automatically generated

Figure 4: Function sum() code inspection

Therefore, the program output was correct with both functions’ name and lines of instructions.