Project 4 - Developing a Ghidra Script

(10 Points)

**Submission Requirements:**

1. For each team, one student will submit the completed script; each of the remaining students in this team is still required to submit a “team.txt” file that includes names of all team members.
2. Each submitted script will need to start with the following content

# @category: CEG7420.Project4

# @author: student1’s name; student2’s name, and etc.

**Task:**

Your Ghidra script will

1. Enumerate all instructions in a binary and derive the frequency for each opcode.
2. Count how many times a function is called if this function is any of “strcpy”, “gets”, “scanf”, “printf”, and “malloc”.

The output will be two parts:

1. The first part contains the opcode and its frequency that is alphabetically ordered by the opcode.

ADD 10

JMP 30

MOV 20

SUB 2

….

1. The second part contains a function and its frequency that is alphabetically ordered by the function name.

gets 10

malloc 1

printf 20

……