**gprof assignment**

Mandatory Assignment:

**1. Refer the code in “recursion\_example.c”. Using gprof , generate the flat profile and call graph and interpret their contents.**

🡺Create the simple\_recursive.c file.

🡺Compile the code with the profiling enabled: First, compile the simple\_recursive.c using the -pg flag, which enables profiling.

“gcc -pg simple\_recursive.c -o simple\_recursive”

🡺Run the program to generate the profiling data: To execute the complied program to create a file named “gmon.out:, which contains the raw profiling data.

“./simple\_recursive”

🡺Generate the flat profile and call graph with gprof: Using gprof to analyze the gmon.out data and generate both the flat profile and call graph.

“gprof simple\_recursive gmon.out > profile.txt”

🡺Interpret the flat profile: Open profile.txt and locate the flat profile section.



