**SPL1 Project Proposal Form, 2022**

**Institute of Information Technology (IIT)**

**University of Dhaka**

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| **Student’s Name:** | Mst. Fareya Azam | | |
| **Student’s Roll:** | BSSE 1331 | **Phone:** | +880 1792 91 11 96 |
| **Project Description:**  **Control Flow Analysis**  Control flow analysis is a static-code-analysis technique for determining the flow of control in a program. The control flow is expressed as a control flow graph (CFG), where statements are represented by nodes and statement dependencies or jumps are represented by edges.  This project is going to implement a program that will take a source-code-file in C as input. On basis of the input, it will generate its control flow graph. This very graph would represent information that can be used for optimization and debugging. | | | |
| **Languages or Tools to be used:**  C, C++,Codeblocks,  Visual Studio Code, Github, Git | | | |
| **Supervisor’s Name:** Dr. Sumon Ahmed  **Signature of the supervisor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date:** 04/01/2023 | | | |