**CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY**

# **Department of Computer Science and Engineering**

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| **Course Code** | **:** | CSE-200 |
| **Course Title** | **:** | Software Development with JAVA(Sessional) |
| **Submitted to** | **:** | Mynul Hasan |
| **Submission Date** | **:** | 27 December 2021 |

**Project Name:  GUESS GAME FEATURING NIM GAME**

**Project Members:**

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| **Section** | **:** | B |
| **Level** | **:** | 2 |
| **Term** | **:** | II |

**Introduction:**

Guess game is to improve our analytic power. Our game has two parts named puzzle game and NIM game. Here puzzle game has some buttons containing numbers which are hidden. There will be a number which will be searched by the user. When the user gets the number correctly, they will win. On the other hand, in NIM game the user will insert a number. Our game will reply if the guessed number is higher, lower or equal to the hidden number. If the guessed number is equal to the hidden number he will win. Here the users have log(n) steps to complete the task.

**Application:**

This game is used to improve analytic power. Here a user has log(n) steps to complete the task. So, the user must choose the optimal guess in each step. If the guess is not optimal the probability of winning decreases. People can play this game for entertain purpose. Here a team or group can play the game to find the optimal answer.

**Motivation for this project:**

When we have learned binary search, it seems very interesting that every searching becomes only log(n). No matter how much the range is. If the elements are sorted, we can find it in an optimal way in log(n) steps at worst. So, this will improve the thinking capability

**Flow Chart:**

Creating the layout for the game



Programming the login form and Guess Game



Performing the Sign up form, puzzle game and NIM Game



Finally Presenting the Full Project