**CS203: - Project proposal**

Group members-------

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**Title:** **Boolean equation comparator**

**Overall objective**: The objective of this project to tell whether the two Boolean equations given as input are equivalent or not.

**Implementation:** It will be programmed in cpp. We will take two strings as input which are Boolean equations. Then we will check the independent variables in both equations, if number of independent variables are equal and both have same set of variables then we proceed further to check. If any of above characteristic’s differ then simply print, they are not equivalent. According to the number of independent variables we will run that many nested loops and then we will assign 0 and 1 to each variable and check weather at any input combination of independent variable, if they are coming different then they are not equivalent otherwise they are equivalent.

**Functionality:** Two Boolean equation are equivalent or not