Pick one out of the following 11 problems (Q1-Q11) as your group project topic. The number in the parentheses is its page number in our text book.

Q1 Generating Permutations (p144)
Q2 Fake-Coin Problem (p152)
Q3 Russian Peasant Multiplication (p153)
Q4 The Game of Nim (p164)
Q5 Gaussian Elimination (p208)
Q6 String Matching (without using brute-force and Horspool's Algorithm) (p258)
Q7 Coin-row problem (p285)
Q8 Coin-collecting problem (p288)
Q9 The Maximum-Flow Problem (p361)
Q10 Maximum Matching in Bipartite Graphs (p372)
Q11 The Stable Marriage Problem (p380)

The following figure illustrates the general algorithm design and analysis process for solving a given problem. You can follow this process to present your project. Coding the algorithm is optional (but welcome).