Data structure and algorithm

**Group assignment for software engineering students**

1. **Explore about**

* Concept of recursion
* Recursive mathematical functions
* Simple recursive procedures
* Divide-and-conquer strategies
* Recursive backtracking?
  + Show recursive backtracking algorithm with example and its application?
* Which data structure is used for implementation of recursion?
* Take whatever example to show the implementation of recursion in data structure?

1. **Explain about**

* Brute-force algorithms
* Greedy algorithms
* Divide-and-conquer
* Backtracking
* Branch- and-bound

**N.B**

* To clearly understand the concepts, use examples for each algorithm you explained about.
* every group should use different examples for the algorithms

Using the same examples will not be accepted.

* All the group members should work together to understand the concept because few questions will be included in your final exam