# **STUDENT PORTFOLIO**



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**Department: NWC** 

**Specialization:** 

**Cyber Security** 

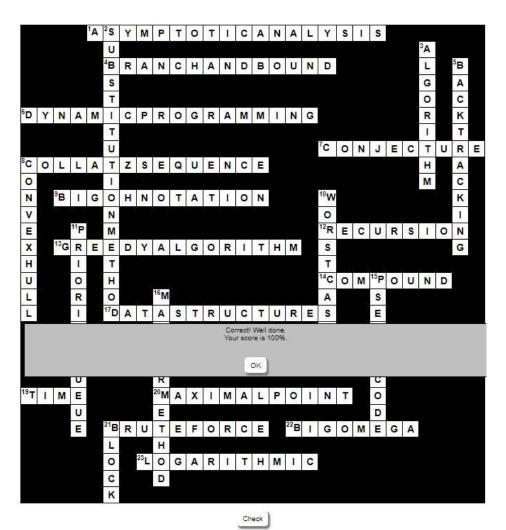
Semester: 4

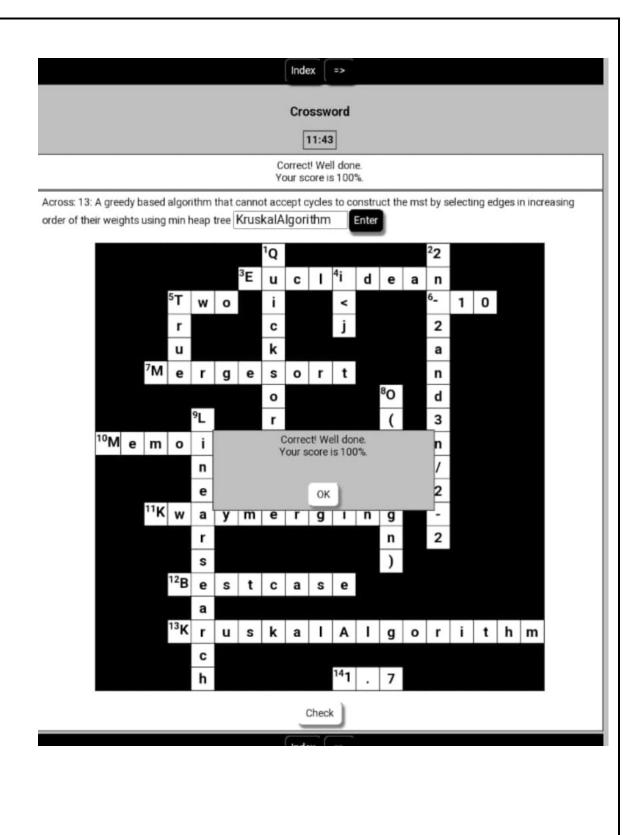
Website-saikethanps.github.io/DAAwebpage/

Subject Title: 18CSC204J Design and analysis of Algorithms Handled By:

Dr. M. Jeyaselvi

### Assignment - Crossword Puzzle (Unit 1,2,3, & 4)





When it comes to solving DAA assignments, there are various strategies that one can use to approach the problem. One common approach is to first understand the problem statement and identify the relevant data or input/output requirements. Then, one can begin to break down the problem into smaller sub-problems and analyze the various algorithmic and data analysis techniques that could be applied to solve each sub-problem.

Some of the common techniques used in DAA assignmentsinclude:

- Sorting Algorithms: Sorting algorithms are used to arrange a set of elements specific order in a, such as alphabetical order or numerical order. Examples of sorting algorithms include bubble sort, insertion sort, and quicksort.
- Graph Algorithms: Graph algorithms are used to analyze and traverse graphs, which are data structures that consist of nodes and edges. Examples of graph algorithms include depth-first search (DFS), breadth-first search (BFS), and Dijkstra's algorithm
- <u>Dynamic Programming:</u> Dynamic programming is a technique used to solve optimization problems by breaking them down into smaller sub-problems and storing the solutions to each sub-problem to avoid redundant calculations

## **Assignment**

• One of the most interesting parts of DAA assignments is the problem-solving aspect. DAA assignments often require use the analytical and critical thinking skills to come up with solutions to complex problems. This can be a challenging but rewarding process that can help students develop valuable problem-solving skills that can be applied in various domains. Another interesting part of DAA assignments is the use of algorithms and data analysis techniques to solve problems. These techniques can be applied to a wide range of real-world problems, from optimizing traffic flow to predicting stock prices. It is fascinating to see how algorithms and data analysis techniques can be used to extract valuable insights and make predictions from large amounts of data.

### Online courses completed on Algorithms

NA

#### **Any other**

1. Badges earned in Hackkerank (C,C++,Python) and Codechef (C).

Sai kethan P.S

**Signature**