**REPORT**

**Project 3: Pattern Matching Algorithms (1. Brute-force, 2. BM Horspool and 3. KMP)**

**Submitted By**

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**Overview of Algorithms (short description)**

Here, I basically used 2 different algorithms for 2 problems.

**Algorithm 1 (Dijkstra’s algorithm):**

**Algorithm 2 (MST : Kruskal’s algorithm):**

**Data Structure Used**

**Runtime of Code**

**Dijkstra’s algorithm**

**MST Kruskal’s algorithm**

**Sample Input & Output**

**Instruction to Run Program**

The running procedure of my implementation is pretty much simple.

I have only one python script named as **project\_2.py.**

Here is this script,

I basically kept a list for the input file names for both shortest path implementation and MST Kruskal implementation ( i.e.

file\_list = [**'dijkstra\_graph\_1.txt'**, **'dijkstra\_graph\_2.txt'**, **'dijkstra\_graph\_3.txt'**, **'dijkstra\_graph\_4.txt'**]

)

So updating this list with the file name/s I want to run and running the script will do the work.