Running head: PROJECT 5

Computer Project 5 for

Discrete Mathematics & Mathematical Logic II course

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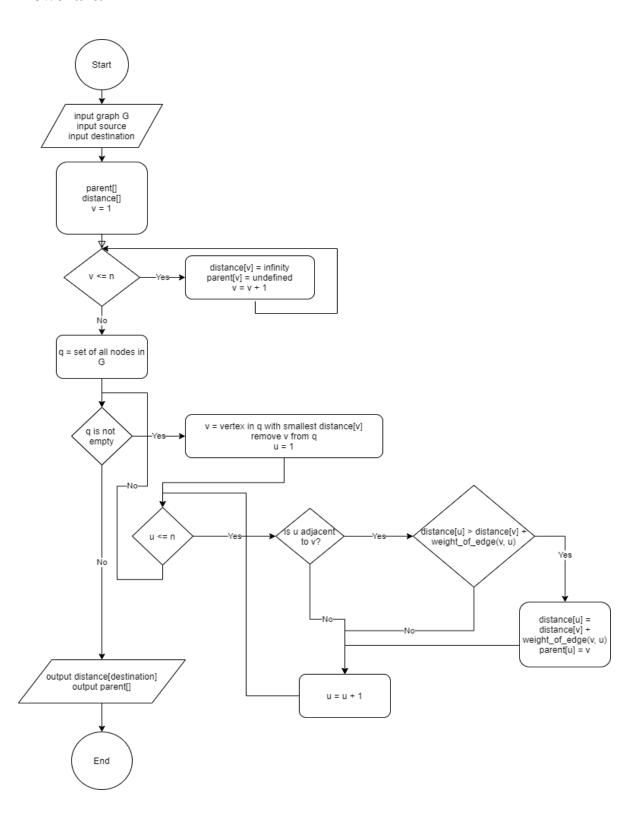
1.Introduction

The aim of the project is to create an algorithm and the program for determining the shortest path between two vertices in a weighted graph.

weighted graph: a graph with numbers assigned to its edges shortest-path problem: the problem of determining the path in a weighted graph such that the sum of the weights of the edges in this path is a minimum over all paths between specified vertices

2.Text of Algorithm

Flowchart:



Pseudocode:

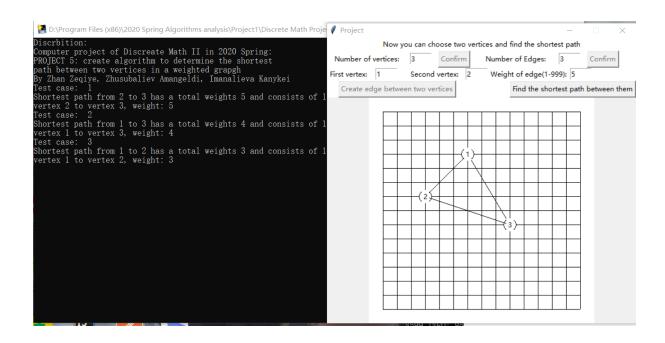
3. Program code & 4. Exe-file of working program

Please check the files "project.py" and "project.exe" uploaded together

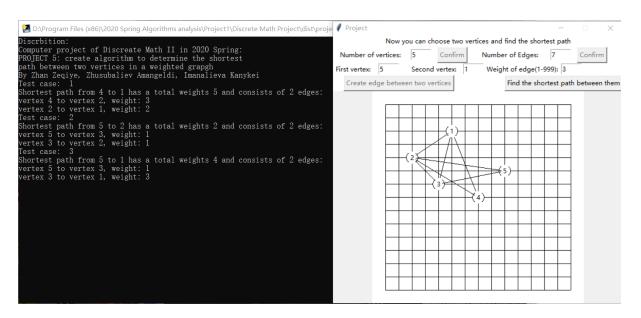
https://github.com/amangeldizhusubaliev/discrete2project5

5. Results of Calculation

First test problem:



Second test problem:



Third test problem:

