**SOURCE CODE**

A computer screen shot of text

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**A screenshot of a computer code

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**A screen shot of a computer code

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**A computer screen with text and images

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**A screenshot of a computer program

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**A screenshot of a computer program

Description automatically generated**

**A black screen with text on it

Description automatically generated**

**TESTING**

**CASE 1**

Test Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Input Data | Option 1 | Option 2 | Option 3 |
| - | Bus Stop 1 to 8 | - |

Output:

* The user enters the first option, the system will display the entire map showing which bus station is linked with another station.
* Next, the user chooses the second option, the system will then prompt the user to enter their current bus stop and later the bus stop that they want to arrive at. The user then enters bus stop 1 as their initial and bus stop 8 as their destination.
* The system will then provide all possible paths from bus stop 1 to bus stop 8 and their distances.
* Lastly, the user enters the third option. Ending the program.

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**CASE 2**

Test Data:

|  |  |  |
| --- | --- | --- |
| Input Data | Option 2 | Option 3 |
| Bus Stop 4 to 2 | - |

Output:

* The user chooses the second option, the system will then prompt the user to enter their current bus stop and later the bus stop that they want to arrive at. The user then enters bus stop 4 as their initial and bus stop 2 as their destination.
* The system will then provide all possible paths from bus stop 4 to bus stop 2 and their distances.
* Lastly, the user enters the third option. Ending the program.

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**CASE 3**

Test Data:

|  |  |
| --- | --- |
| Input Data | Option 2 |
| Bus Stop 6 to 10 |

Output:

* The user chooses the second option, the system will then prompt the user to enter their current bus stop and later the bus stop that they want to arrive at. The user then enters bus stop 6 as their initial and bus stop 10 as their destination.
* Since there is no bus stop 10, the system will say that it is unable to find any paths from bus stop 6 to bus stop 10.

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