**Quiz # 2: Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: 29/09/2019**

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We have following map (PIA routes through different cities), we have only the latitude and longitude of all cities airports. Using only above information, apply Uniform Cost Search to find shortest path from city “V1” to “V6”. The PIA must visit “V4” when traveling from “V1” to “V6”. Give description how you will solve this problem.

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| --- | --- | --- |
| City | Latitude | Longitude |
| V1 | 2 | 6 |
| V2 | 4 | 1 |
| V3 | 4 | 11 |
| V4 | 6 | 1 |
| V5 | 7 | 11 |
| V6 | 10 | 6 |

