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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| C:\Users\saif\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\final design.jpg | **Course:** | **Design and Analysis of Algorithms** | **Course Code:** | **CS302** |
| **Program:** | **BS(Computer Science)** | **Semester:** | **Spring 2018** |
| **Duration:** | **10 Minutes** | **Total Marks:** | **10** |
| **Paper Date:** | **8-May-18** | **Weight** | **3** |
| **Section:** | **D** | **Page(s):** | **1** |
| **Exam:** | **Quiz 6** | **Roll No:** |  |
| **Section:** |  |
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The following is an algorithm for finding single source shortest-paths for a graph G with weights on the edges, that can be negative (Assume that there is no negative weight cycle). Does it solve the problem?

1. Find the minimal weight in G, Wmin
2. To each weight in G, add |Wmin| (absolute value of Wmin)
3. Execute dijkstra algorithm

Justify your answer.