**5. Graph Coverage**



**A screenshot of a computer program

Description automatically generated**



**1. Edge pairs:** {[1,2,4], [1,2,3], [2,3,4], [2,4,1], [3,4,1], [4,1,5], [4,1,2]} – Total 7

**2.** Yes.

**3. Prime paths:** {[1,2,3,4,1], [2,3,4,1,5], [2,3,4,1,2], [3,4,1,2,3], [4,1,2,3,4], [1,2,4,1],[2,4,1,2],[2,4,1,5],[4,1,2,4]} – Total 9

**4. Four paths that are not toured directly by the given test paths are:** [2,3,4,1,2], [3,4,1,2,3], [2,4,1,5], [4,1,2,4]