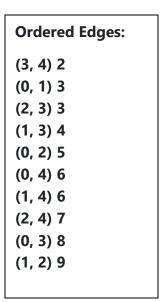
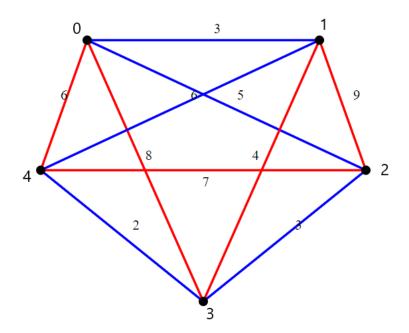
## Assignment No. 5 Truta David Cristian

**Graph with 5 vertices:** 





We add edges that don't complete a cycle that includes all vertices AND that never have more than 2 edges meeting at a vertex:

It1: (3,4) is added

It2: (0,1) is added

It3: (2,3) is added

It4: (1,3) is not added (more than 2 edges meeting at a vertex)

It5: (0,2) is added

It6: (0,4) is not added (completes a cycle that doesn't have all the vertices)

It4: (1,4) is added (completes a cycle that has all the vertices) → Algorithm stops here

```
Input File:

5 10
0 1 3
3 4 2
2 3 3
1 3 4
1 4 6
2 4 7
0 3 8
0 4 6
1 2 9
0 2 5
```

```
Nr of Vertices: 5 Nr of Edges: 5
Edges:
(3, 4) 2
(0, 1) 3
(2, 3) 3
(0, 2) 5
(1, 4) 6

Command took 0.0 to execute.
```

## The two graphs:

