In the name of God

Department of Physics

Shahid Beheshti University

COMPUTATIONAL PHYSICS

Exercise Set 11

(Due Date: 1402/03/21)

1. For the given graphs below, iterate Grover's search algorithm to find the correct colorings (*Be sure to write your own interpretation of the measurement results of your circuit)

2. For both graphs, check your answer by designing a circuit which measuring part determines whether a graph is bipartite or not.
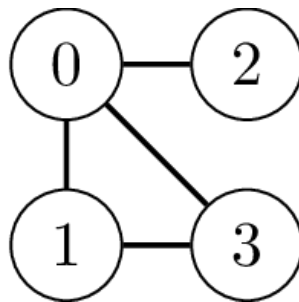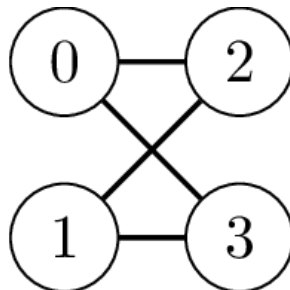

Figure 1

Figure 2