QUESTION:

Make a **GUI using JavaFX** to make the following functionalities:

- (i) Add vertex specifying name of vertex, x coordinate value and y coordinate value using text fields.
- (ii) Search for a named vertex and show details.
- (iii) Delete a named vertex.
- (iv) Modify the details of a named vertex.
- (v) Add edge specifying from and to vertices names and weight using text fields.
- (vi) Search for an edge specifying the named vertices.
- (vii) Delete an edge.
- (viii) Modify the details of an edge.
- (ix) Load data from a text file (format: number of vertices, vertex details, number of edges, edge details, all space separated in a single line.
- (x) Export graph in the same format in a text file (vertices sorted by name, edges sorted from the from vertex and then to vertex).
- (xi) Take source and goal vertex name as input and print the path in a text field.

NOTE: Use Dialogue Boxes for illegal inputs. Use **Exception Handling**.