

The screenshot displays an IDE environment with a Java project named "AMBERRODRIGUEZ-PROJECT4". The Explorer panel on the left shows the project structure, including a "src/hellofx" directory with files like "Classes.zip", "Controller.java", "Graph.java", "GraphView.java", "hellofx.fxml", "Main.java", and "Vertex.java". The "Graph.java" file is currently open in the editor, showing a Java class implementing a graph structure. The code includes methods for adding and removing edges and vertices, and a depth-first search (DFS) algorithm. The "Interactive Graph Builder" window is overlaid on the right side of the IDE. It features a visual representation of a graph with four vertices labeled A, B, C, and D. Vertex A is connected to B, B is connected to C, and C is connected to D. The window includes input fields for "Vertex 1" and "Vertex 2", an "Add Edge" button, and buttons for "Is Connected", "Has Cycles?", "Depth First Search", and "Breadth First Search". The "Is Connected" button is highlighted, and the text "Graph is connected" is displayed below the buttons. The bottom status bar of the IDE shows the current file is "Ln 1, Col 1", the encoding is "UTF-8", and the language is "Java".