**Topic Name : Solving 8 Puzzle Using Best Fit Search Algorithm**

**Course Name and Class Number:** Artificial Intelligence CSC 5015

**CUW ID:** F00612719

**Student Name:** Srujana Challuri

**Submission Date:** Feb 27 2025

**Professor:** Matthew McCormick

**Title: Implementation of code that will solve the 8-puzzle using a best fit search algorithm which generate the search tree that is generated by the best-fit algorithm**

**Code screenshots –(Uploaded the Google collab Notebook for reference):**

**A screenshot of a computer program

Description automatically generated**

**A screenshot of a computer program

Description automatically generated**

**A screenshot of a computer program

Description automatically generated**

**Solution Found in below number of steps:**

**A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated**