Screenshots

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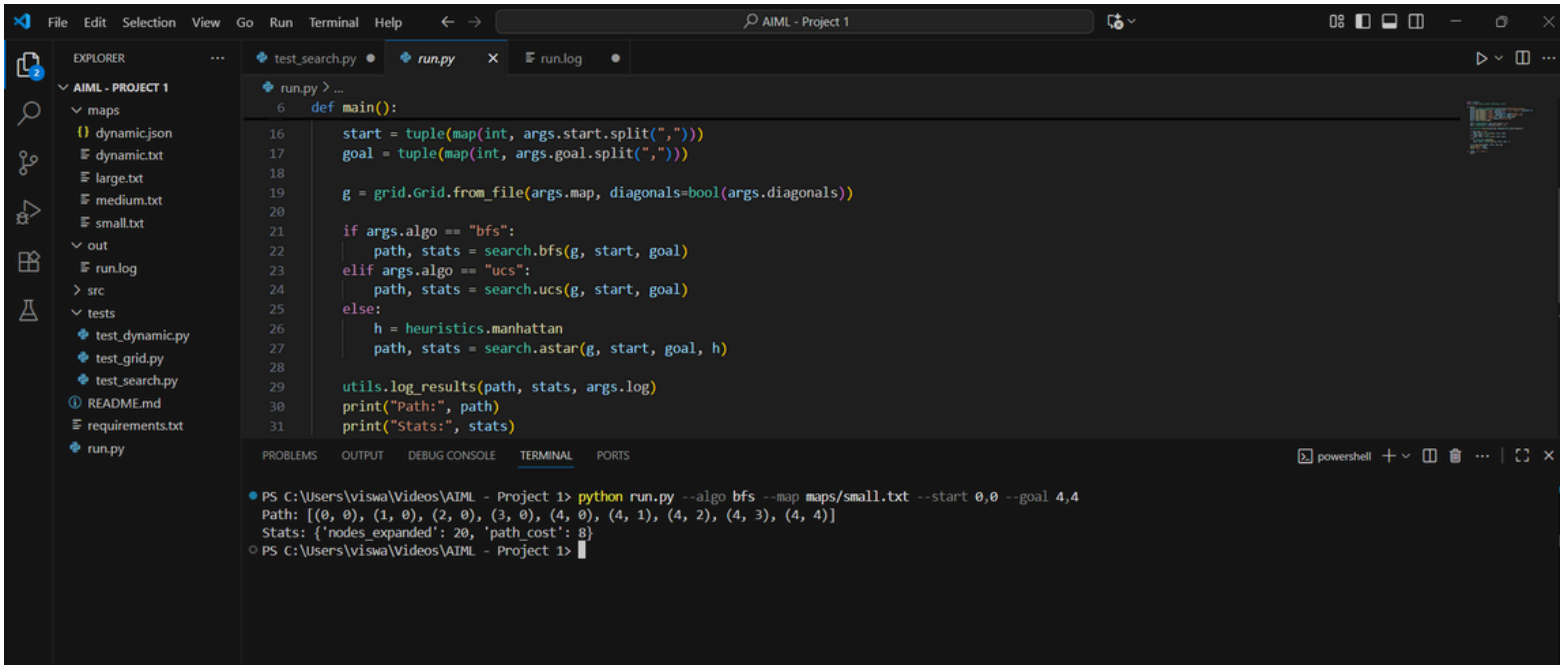
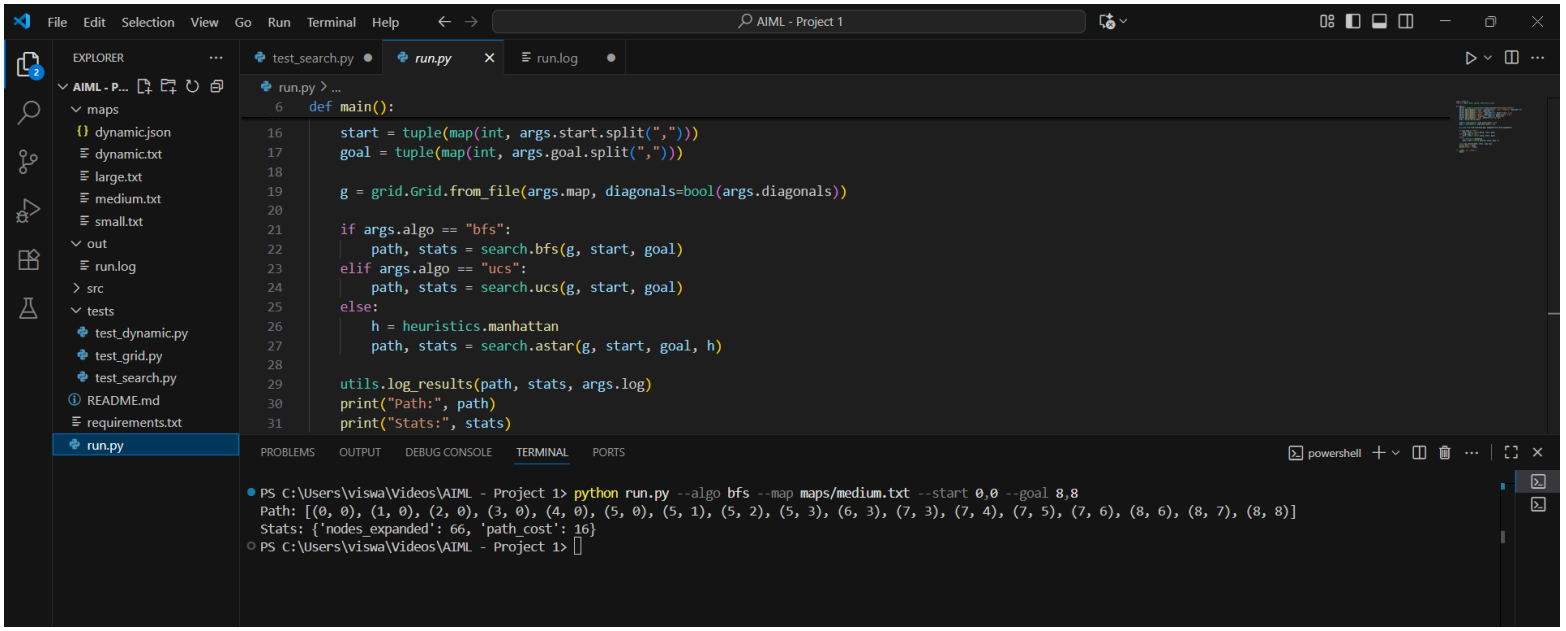
TEST 1 : BFS

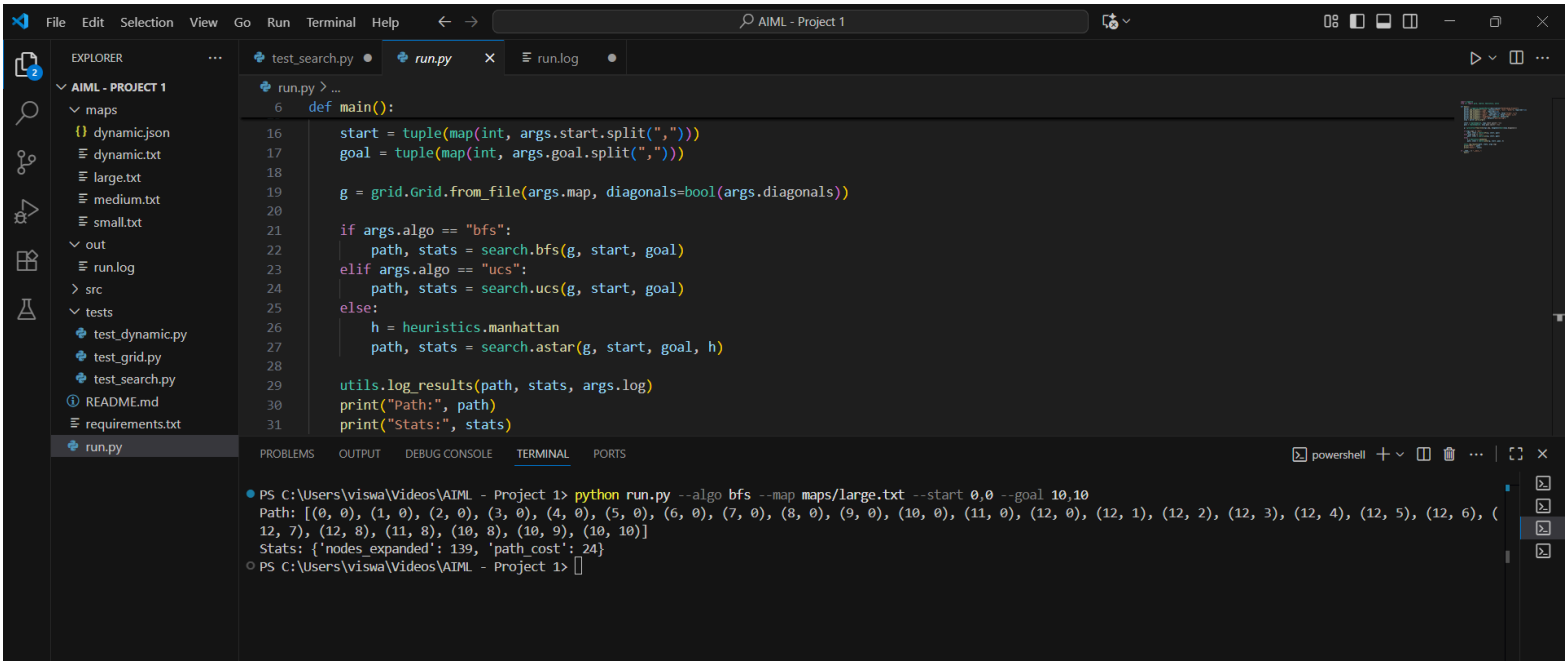
- **BFS on small map**



- **BFS on medium map**

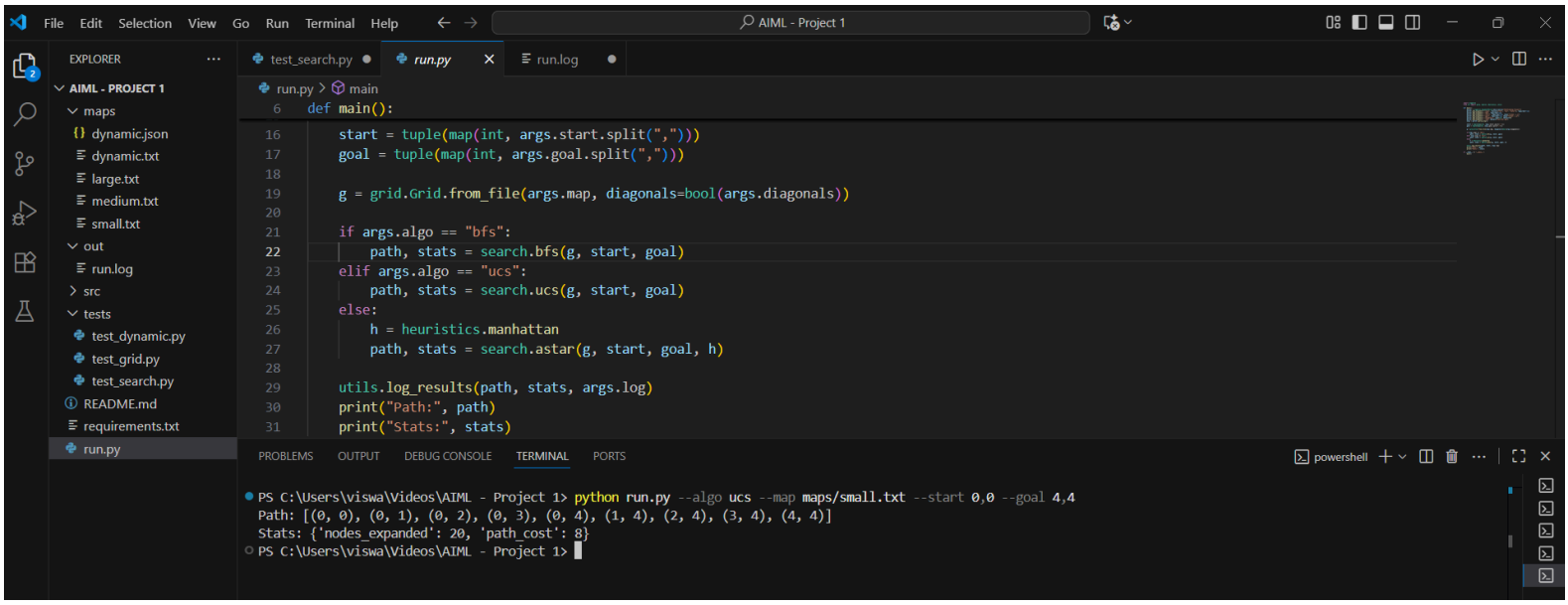


- **BFS on large map**

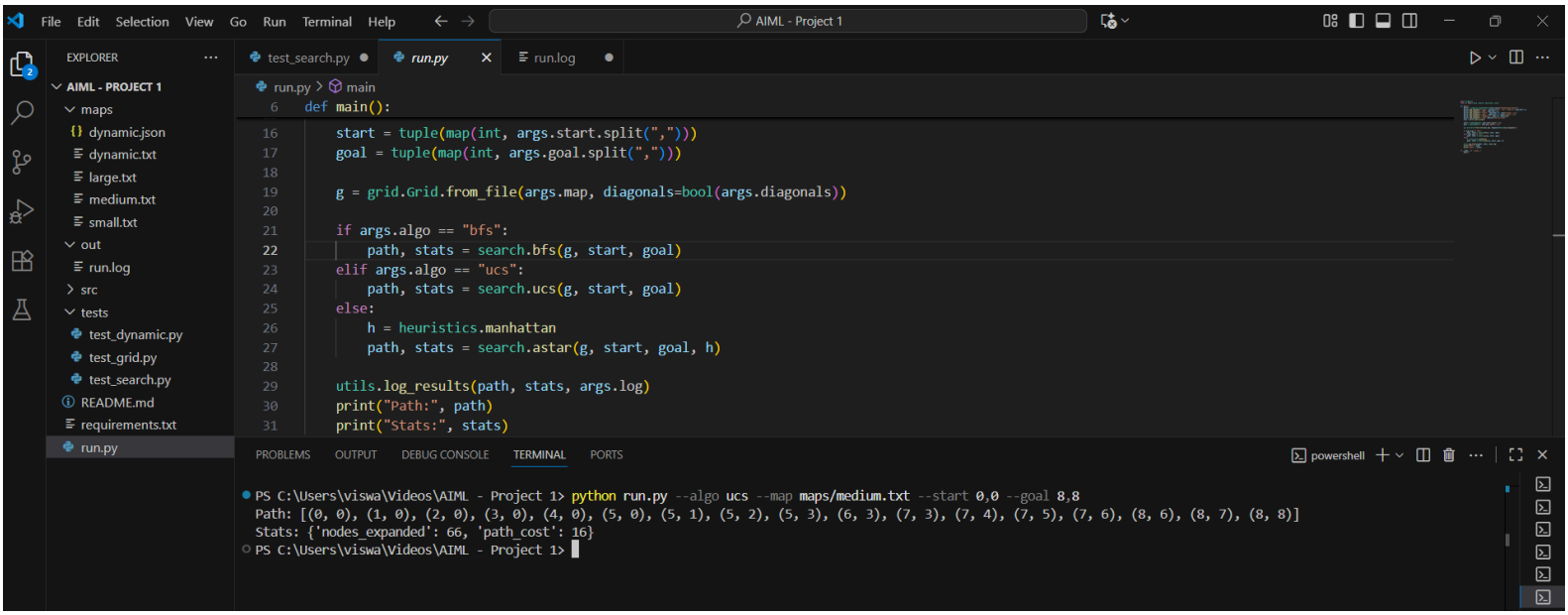


TEST 2: UCS

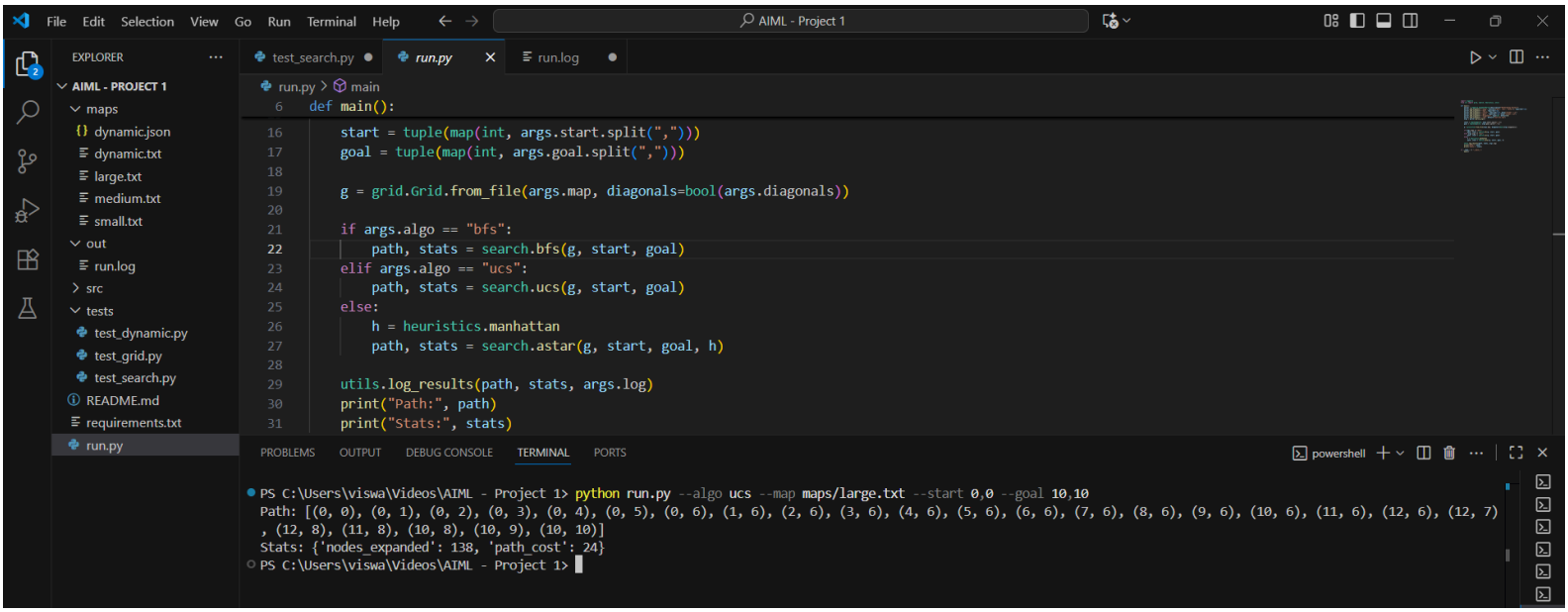
- **UCS on small map**



- **UCS on medium map**

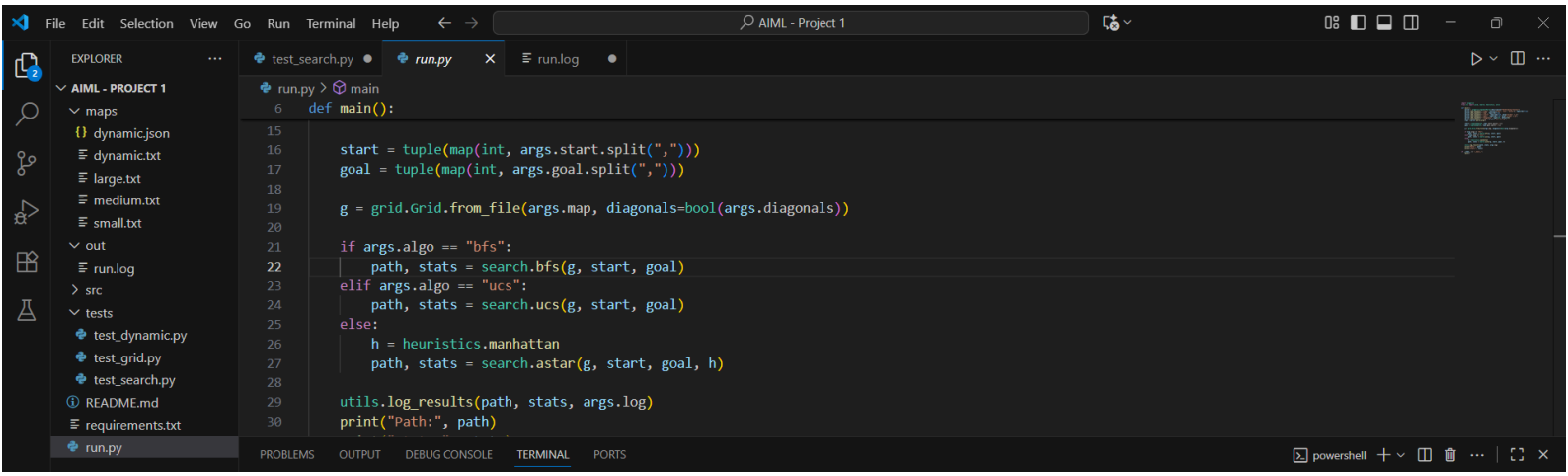


- **UCS on large map**



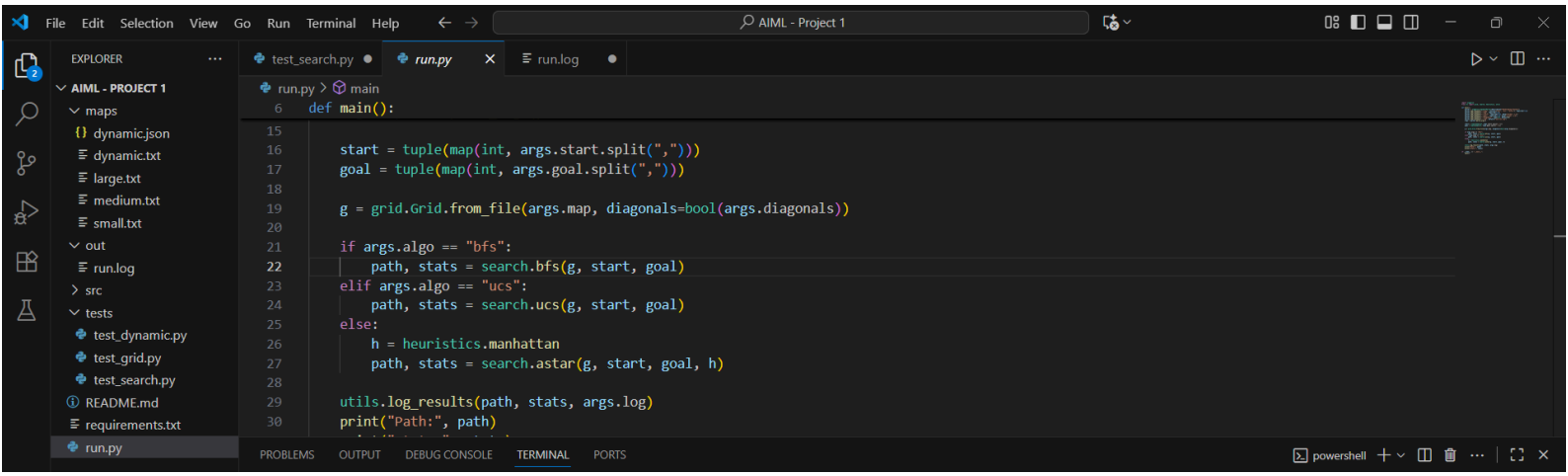
TEST 3: A* with diagonals

- **A* on small map**



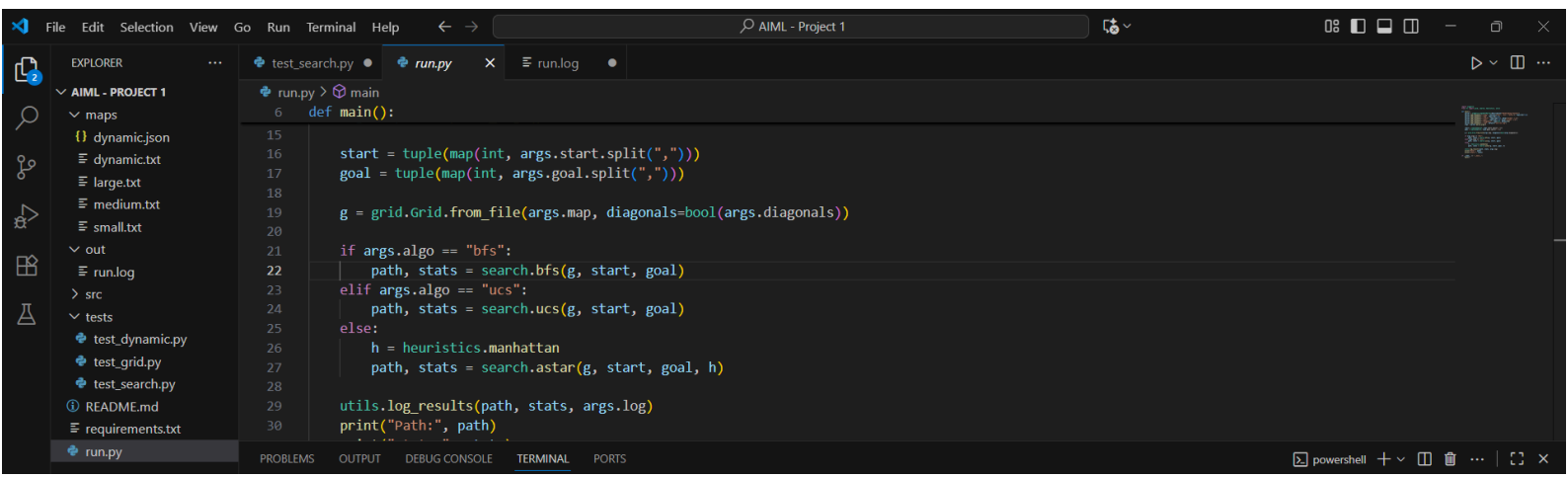

```
PS C:\Users\viswa\Videos\AIML - Project 1> python run.py --algo astar --map maps/small.txt --start 0,0 --goal 4,4 --diagonals 1
Path: [(0, 0), (0, 1), (1, 2), (2, 3), (3, 4), (4, 4)]
Stats: {'nodes_expanded': 6, 'path_cost': 5}
```

- **A* on medium map**



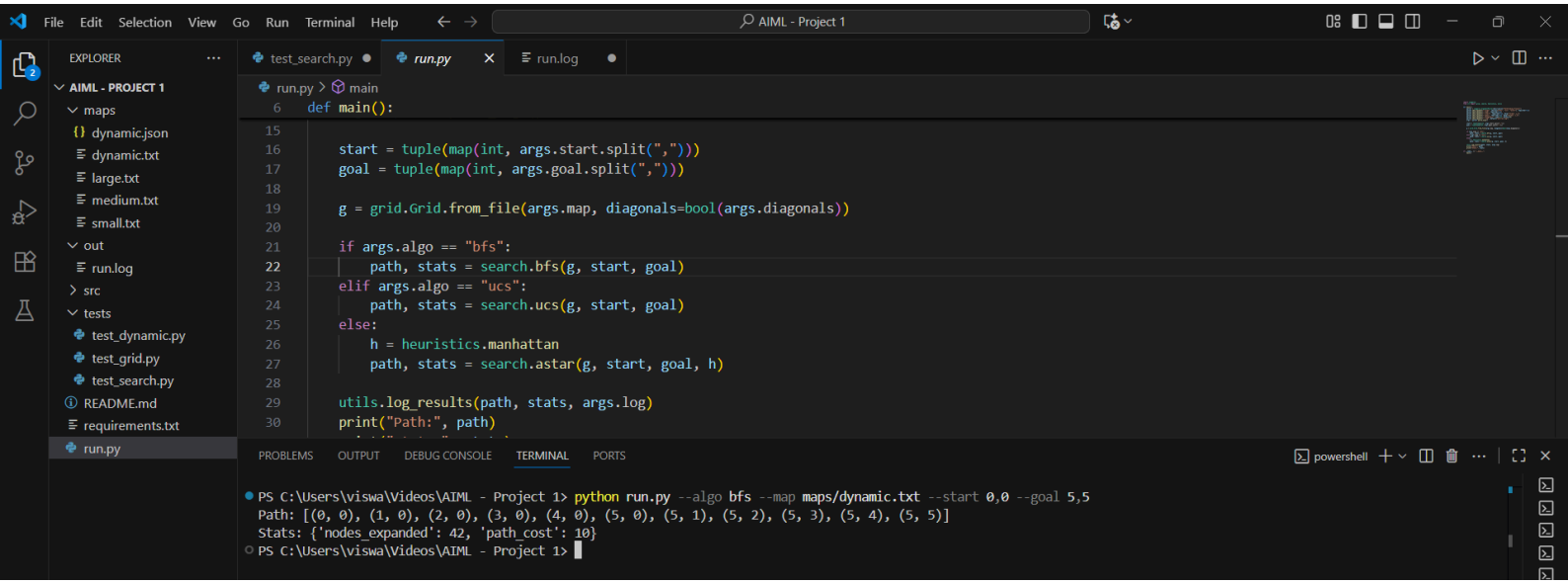

```
PS C:\Users\viswa\Videos\AIML - Project 1> python run.py --algo astar --map maps/medium.txt --start 0,0 --goal 8,8 --diagonals 1
Path: [(0, 0), (0, 1), (1, 2), (2, 2), (3, 3), (3, 4), (2, 5), (3, 6), (4, 7), (5, 8), (6, 8), (7, 9), (8, 8)]
Stats: {'nodes_expanded': 16, 'path_cost': 12}
```

- **A* on large map**




```
PS C:\Users\viswa\Videos\AIML - Project 1>  python run.py --algo astar --map maps/large.txt --start 0,0 --goal 10,10 --diagonals 1
Path: [(0, 0), (0, 1), (1, 2), (2, 3), (3, 4), (4, 4), (5, 4), (6, 5), (7, 6), (8, 7), (9, 6), (10, 6), (11, 6), (12, 7), (11, 8), (10, 9), (10, 10)]
Stats: {'nodes_expanded': 61, 'path_cost': 16}
```

TEST 4: BFS on large map with logging



TEST 5: A* on large map, log to custom file