**Artificial Intelligence**

Assignment 01

Submitted By:

**Ali Raza (SP21-BCS-051)**

|  |  |
| --- | --- |
| **Queue** | **Cost** |
| (S,0) |  |
| (S, A,3), (S, B,7) |  |
| (A, B,5), (S, B,7), (A, D,12) | (S, A,3) |
| (S, B, 7), (B, C, 11), (A, D, 12), (B, S, 12) | (A, B, 5) |
| (B, C,11), (A, D,12), (B, S,12), (B, C, 13) | (S, B,7) |
| (A, D,12), (B, S,12), (C, G,12), (B, C, 13) | (B, C, 11) |
| (B, S,12), (C, G,12), (B, C, 13), (D, F, 25) | (A, D,12) |
| (C, G,12), (B, C, 13), (D, F, 25) | (B, S,12) |
| (B, C, 13), (D, F, 25) | (C, G,12) |

**Path: (S, A,3), (A, B, 5), (B, C, 11), (C, G,12)**

**5**

**12**

**11**

**3**