**Nama : Dwi Fath Syahdi Akbar**

**Nim : E31181942**

**Golongan : D**

**Status : diperbarui**

**\*Note : Mohon maaf sebelumnya, laporan ini sudah dikumpulkan pada 19 maret 2020 dan ketika sudah dilihat di riwayat laporan ini tidak ada.**

**Praktikum Kecerdasan Buatan 4**

**Soal**

1. Berdasarkan Gambar 1 dan 2 representasikan kasus diatas dengan tree
2. Selesaikan kasus diatas dengan metode:
   1. Best First Search
   2. Hill climbing
   3. Branch and Bound
   4. Dynamic Programming

**Jawaban:**

5

2

2

5

2

2

2

2

3

3

1

2

5

2

5

2

2

3

7

1

2

4

**BEST FIRST SEARCH:**

OPEN[B2,A4], CLOSED[S]

OPEN[A4], CLOSED[S,B2]

OPEN[A1, A4, C7 ], CLOSED[S,B2]

OPEN[A4,C7], CLOSED[S,B2,A1]

OPEN[D3,A4,C7], CLOSED[S,B2,A1]

OPEN[A4,C7], CLOSED[S,B2,A1,D3]

OPEN[C2,A4,Z5,C7], CLOSED[S,B2,A1,D3]

OPEN[A4,Z5,C7], CLOSED[S,B2,A1,D3,C2]

OPEN[Z2,A4,Z5,C7], CLOSED[S,B2,A1,D3,C2]

OPEN[Z2,A4,Z5,C7], CLOSED[S,B2,A1,D3,C2,Z2]

HASIL = **[S,B,A,D,C,Z]**