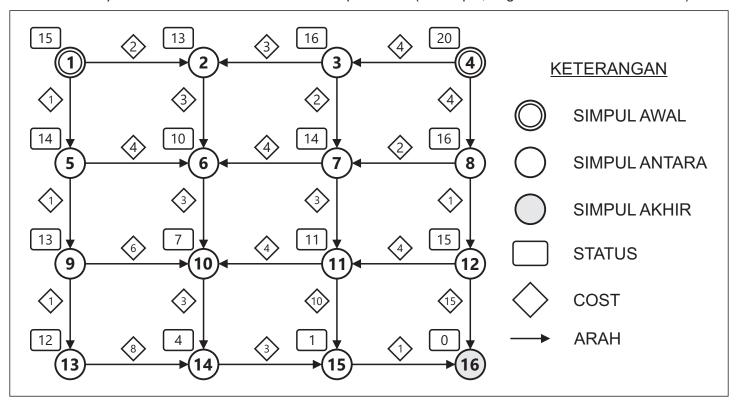
TUGAS MODUL-13

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Mata Kuliah : Artificial Intelligence

1. Directed Graph berbentuk kisi-kisi 3 baris terhadap 3 kolom (16 simpul,12 garis vertikal dan horizontal)



2. Tabel jarak (baris ke kolom)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1		2			1											
2						3										
3		3					2									
4			4					4								
5						4			1							
6										3						
7						4					3					
8							2					1				
9										6			1			
10														3		
11										4					10	
12											4					15
13														8		
14															3	
15																1
16																

Jalur yang dilalui dari simpul 1 ke simpul 16

Jalur yang dilalui dari simpul 4 ke simpul 16

```
D:\smt4\Artificial Intelligence\P13
λ javac Astar.java

D:\smt4\Artificial Intelligence\P13
λ java -cp . Astar
Node_1
Node_2
Node_6
Node_10
Node_14
Node_15
Node_15
Node_16

D:\smt4\Artificial Intelligence\P13
λ
```

```
D:\smt4\Artificial Intelligence\P13
λ javac Astar.java

D:\smt4\Artificial Intelligence\P13
λ java -cp . Astar
Node_4
Node_8
Node_12
Node_16

D:\smt4\Artificial Intelligence\P13
λ
```

```
Potongan Astar.java
addLane("Edge_1_2", 0, 1, 2, 13);
addLane("Edge_1_5", 0, 4, 1, 14);
addLane("Edge 2 6", 1, 5, 3, 10);
addLane("Edge_3_2", 2, 1, 3, 13);
addLane("Edge_3_7", 2, 6, 2, 14);
addLane("Edge_4_3", 3, 2, 4, 16);
addLane("Edge_4_8", 3, 7, 4, 16);
addLane("Edge 5 6", 4, 5, 4, 10);
addLane("Edge_5_9", 4, 8, 1, 13);
addLane("Edge_6_10", 5, 9, 3, 7);
addLane("Edge_7_6", 6, 5, 4, 10);
addLane("Edge_7_11", 6, 10, 3, 11);
addLane("Edge 8 7", 7, 6, 2, 14);
addLane("Edge_8_12", 7, 11, 1, 15);
addLane("Edge_9_10", 8, 9, 6, 7);
addLane("Edge_9_13", 8, 12, 1, 12);
addLane("Edge_10_14", 9, 13, 3, 4);
addLane("Edge_11_10", 10, 9, 4, 7);
addLane("Edge_11_15", 10, 14, 10, 1);
addLane("Edge_12_11", 11, 10, 4, 11);
addLane("Edge 12 16", 11, 15, 15, 0);
addLane("Edge_13_14", 12, 13, 8, 4);
addLane("Edge_14_15", 13, 14, 3, 1);
addLane("Edge_15_16", 14, 15, 1, 0);
```