**MACHINE LEARNING ACTIVITY 11**

1. Admin building
2. Engineering block
3. Science lab
4. Library
5. ICT department
6. Residence A
7. Residence B
8. Cafeteria
9. sport complex
10. main entrance

Directed graph:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ADGECENTS METRICS | | | | | | | | | | |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** |
| 1 | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **1** | **0** | **0** |
| 2 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** |
| 3 | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **1** | **0** |
| 4 | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** |
| 5 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** |
| 6 | **0** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **1** |
| 7 | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** |
| 8 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| 9 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Hash maps

0: [3], Admin → Library

1: [2, 7], Engineering → Science Lab, Cafeteria

2: [7], Science Lab → Cafeteria

3: [4, 8], Library → ICT, Sports Complex

4: [1, 7], ICT → Engineering, Cafeteria

5: [7], Residence A → Cafeteria

6: [1, 9], Residence B → Engineering, Main Entrance

7: [5], Cafeteria → Residence A

8: [], Sports Complex → no outgoing

9: [] Main Entrance → no outgoing