



**Course Title: Introduction to Artificial
Intelligence**

Home Work-2

Submitted to:

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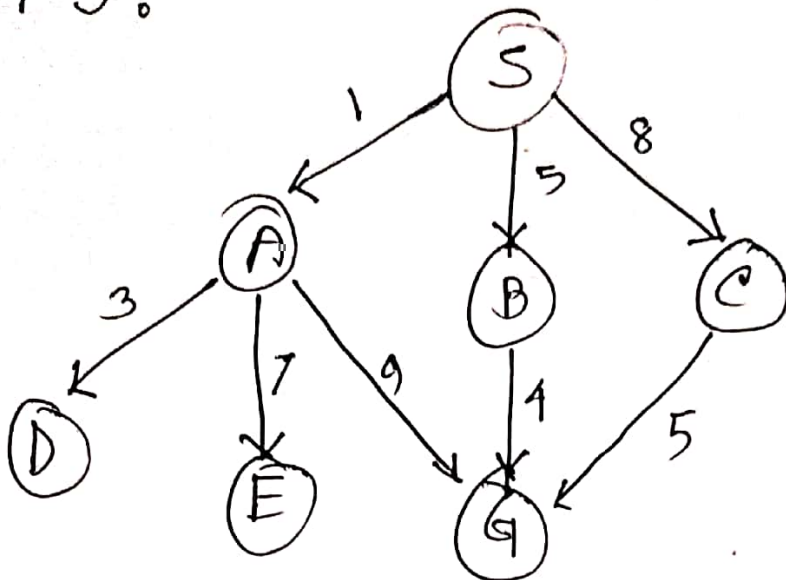
Submitted by:

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Submitted on: Nov-11, 2021



BFS:



Expand Node	Open List
	{ S }
S	{ A, B, C }
A	{ B, C, D, E, G }
B	{ C, D, E, G }
C	{ D, E, G }
D	{ E, G }
E	{ G }
G goal	

Path : $S \rightarrow A \rightarrow G$

Cost : 10

VC S :

Expand Node	Open List
	{ S: 0 }
S	{ A: 1, B: 5, C: 8 }
A	{ D: 4, B: 5, C: 8, E: 8, G: 10 }
D	{ B: 5, C: 8, E: 8, G: 10 }
B	{ C: 8, E: 8, G: 9 }
C	{ E: 8, G: 9 }
E	{ G: 9 }
G goal	

Path: $S \rightarrow B \rightarrow G$

Cost: 9