**Department of Computer Science**

**Forman Christian College University**

**COMP360: Introduction to AI**

**Spring 2024**

**Lab 3**



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| **Total**  **(20 Marks)** |
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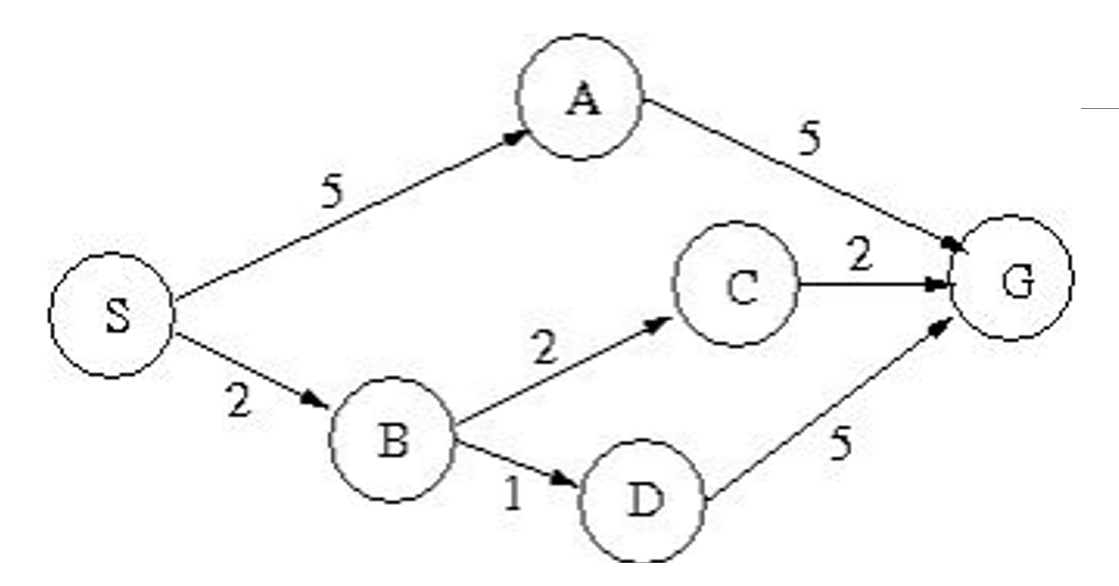
**UCS: Uniform Cost Search**

**Lab Instructions:**

* Get your attendance marked before leaving the classroom.
* This is an individual Lab assignment. Each student must submit their own work.
* IMPORTANT: Run the lab#\_name\_roll#.py file and make sure it runs without any errors.
* Then populate the below mentioned files with your implementation.
* After you’re done with your implementation, change the python file “lab#\_name\_roll.py” and replace your “lab number”, “name” and “roll\_no”.
* Finally upload them on tmoodle.

**Task 1:**

Using UCS Find the path to reach from **S** to **G** search.



* You are provided with three files that are “graph.py”, “custom\_queue.py” and “lab#\_name\_roll#.py”.
* Read the given code in the files.
* Fill in the function in the file “lab#\_name\_roll#.py”