 

**INFORMATICS INSTITUTE OF TECHNOLOGY**

**IN COLLABORATION WITH**

**UNIVERSITY OF WESTMINSTER (UOW)**

**B.Eng. (Hons) Software Engineering**

**5SENG002C.2 – Algorithms: Theory Design and Implementation**

**Module Leader: Sudharshan Welihinda**

Coursework - 01

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1. A short explanation of your choice of data structure and algorithm.

* The data structure used is a queue (FIFO – First in First Out) since BFS (Breadth First Search Algorithm) is used for the searching or traversing the data graph. [Queue data structure is used by BFS]
* The algorithm used is ………

1. Run of your algorithm on the smallest benchmark example.
2. A performance analysis of your algorithmic design and implementation. (Based of Doubling Hypothesis) also include the suggested order of growth classification (Big-O-notation).