**COL 733:  CLOUD COMPUTING TECHNOLOGY FUNDAMENTALS**

**Assignment 3**

**Disk Virtualisation**

**Group 11**

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**DISK VIRTUALISATION (CONSOLIDATION & PARTITIONING)**

**Read/Write of Blocks**

We have a class *BlockData*, the objects of which represent each blocks. The class *BlockMetaData* represents the meta data associated with each block. The *free* variable captures the information whether a block is free or not. The class *FileSystem* represents the main file system that is based on the idea of virtual disks. *diskA* and *diskB* represent the physical disks with capacity of 200 and 300 block respectively. The file system has an array *blocksMetaData* of 500 size which stores the meta data corresponding to each block.

**Functions:**

* **writeBlock (self, blockNum, writeData):** writes data to a particular block number. It initially performs the block number check to verify if block number lies between 1 & 500.