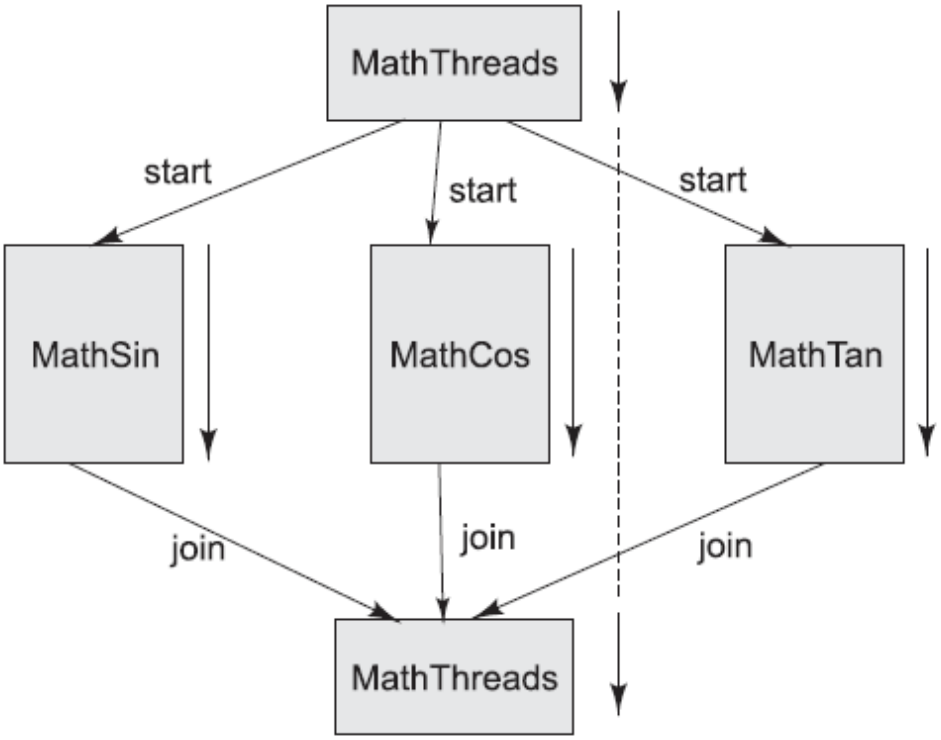
Network Programming (CMPU3027)
LAB 06 (1 Marks)
A Java Program with Multiple Threads

Create multiple threads in a program which will perform concurrent operations and process the following mathematical equation:

p = sin (x) + cos (y) + tan (z)



The main/default thread is called MathThreads, which acts like a master thread. It creates three worker threads (MathSin, MathCos, and MathTan) and assigns them to compute values for different data inputs.

All three worker threads are concurrently executed on shared or dedicated CPUs depending on the type of machine. Although the master thread can continue its execution, in this case, it needs to make sure that all operations are completed before combining individual results. This is accomplished by waiting for each thread to complete by invoking join() method associated with each worker thread.

See Lecture-05 and slide number 21, 22 and 23.

Note: You have to submit the report through Brightspace in pdf or doc format which will contains the java source code and screenshot of program output.