# WEEK 5 CURRICULUM

Thursday, July 13, 2023 4:08 PM

**TOPICS**

1. Threads and Concurrency
2. Scheduling Task
3. I/O(Networking and Sockets)

**LEARNING OUTCOMES**

1. Understand what a thread and process is.
2. Understand how to spin up a thread
3. Understand when you should use multithreading
4. Know how to schedule tasks.

5.Understand the basics of Networking (IP addresses, Routers, LAN/WLAN/WAN, Ports, nodes)
6.Understand how sockets basics and connections(TCP/IP connections)

**LEARNING MATERIALS**

https://www.javatpoint.com/multithreading-in-java

https://www.udemy.com/course/java-multithreading-concurrency-performance-optimization/

https://www.vogella.com/tutorials/JavaConcurrency/article.html

https://docs.oracle.com/javase/tutorial/essential/concurrency/index.html

https://jenkov.com/tutorials/java-concurrency/index.html

https://www.tutorialspoint.com/java/java_multithreading.htm

https://www.geeksforgeeks.org/multithreading-in-java/hread-safety

https://www.guru99.com/multithreading-java.html

**Basics of Networking**
**https://www.cisco.com/c/en/us/solutions/small-business/resource-center/networking/networking-basics.html**
**https://www.ibm.com/cloud/learn/networking-a-complete-guide**

**Socket programming in JAVA**
**https://www.javatpoint.com/socket-programming**
**https://zetcode.com/java/socket/**

**Scheduling in JAVA**
**https://dzone.com/articles/schedulers-in-java-and-spring**

**ALGORITHMS**

HashTables

Learn Hash Tables in 13 minutes #️⃣


Microsoft Stream