**Day 8: 27-10-2025:**

**Inner thread communication**

To make thread communicate with each other java provided 3 main method

1. wait() : this method is use to make the thread to wait or suspend.
2. notify() : this method is use to resume or callback waited thread. it resume only one thread.
3. notifyAll() : notifyAlll resume more than one thread.

more than one thread part of same memory.

Method must be synchronized.

All these method part of object class.

**Dead lock**

A dead lock happen while writing code using multi threading. When two or more than one thread are waiting for each other forever and none of them can continue. Because all those thread are executing inside a synchronized method and calling other thread synchronized code.

3rd way to create the thread using Callable interface.

Callable interface is a part of concurrent package and it is a sub package of util package.

Runnable Vs Callable

Runnable is an interface Callable is an interface

Part of lang package part concurrent package

run() method call() method

No return type Custom return type with generic and throw exception.

Callback we will execute ExecutorService API.