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Synchronization in Java (Part 2)

=> "static synchronization" :-

- ➔ In this part, lock comes for class level. All other working is same.

=> wait(), notify() and notifyAll() methods :-

- ➔ These methods are used for inter-thread communication
- ➔ These methods are of Object class
- ➔ To call these methods on any object, thread should own the lock of that object i.e. the thread should be inside the synchronized area.

➔ wait() method :-

- This method will release the current running thread lock and waits until it will get the notification

→ notify() method :-

- This method is used to wake up the single waiting thread and releases the object lock.

→ notifyAll() method :-

- This method is used to wake up all the waiting thread and releases the object lock.

=> What is difference between sleep() and wait() method :-

1. sleep() is the Thread class method

wait() is the Object class method

2. sleep() is static method

wait() is non-static method

3. sleep() method doesn't release the lock

wait() method releases the lock

4. sleep() method is invoked after the provided time period

wait() method can be invoked by notify() or notifyAll() or by provided time period

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