

ECAP615

Programming in Java



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Learning Outcomes



After this lecture, you will be able to

- understand the basic concept thread synchronization and its declaration.
- implementation of thread synchronization.

Thread Synchronization

- Multi-threaded_programs may often come to a situation where multiple threads try to access the same resources and finally produce erroneous and unforeseen results.
- So it needs to be made sure by some synchronization method that only one thread can access the resource at a given point of time.

Thread Synchronization

- Synchronization is the capability to control the access of multiple threads to any shared resource.
- It is better option where we want to allow only one thread to access the shared resource.
- Java provides a way of creating threads and synchronizing their task by using synchronized blocks.

Declaration of synchronized method

```
synchronized(sync_object)
```

```
{
```

```
// Access shared variables and other shared  
resources
```

```
}
```

That's all for now...