

REAL TIME USE CASES OF SINGLETON JAVA PROJECT

When should we take java class as singleton class:-

- ⇒ When class is not having state
- ⇒ When class is only read Only state
- ⇒ When class is having sharable state across the multiple classes in synchronized environment.

1. When class is not having state:-

Point is when the class is not having state then how can we perform business operation ...so that the solution is when class is not having state we can use state as in method parameter or method argument so we can perform business operation.

Problem:-

```
package com.nit.dp;
public class Arithmethic {
    public int sum(int x, int y) {
        return x+y;
    }
}
```

In this example there is no state in Arithmetic class so that if we have to perform operation so we have to create object for every operation so more object with no state is really bad memory waste

Solution :-

```
package com.nit.dp;
public enum Arithmetic {
    instance;
    //business method
    public int sum(int x, int y)
    {
        return x+y;
    }
}
```

This is the solution of above given case because object created only one time we use that object method by reference many time with different different values.

2. When class in only read only state.

Problem:-

3.