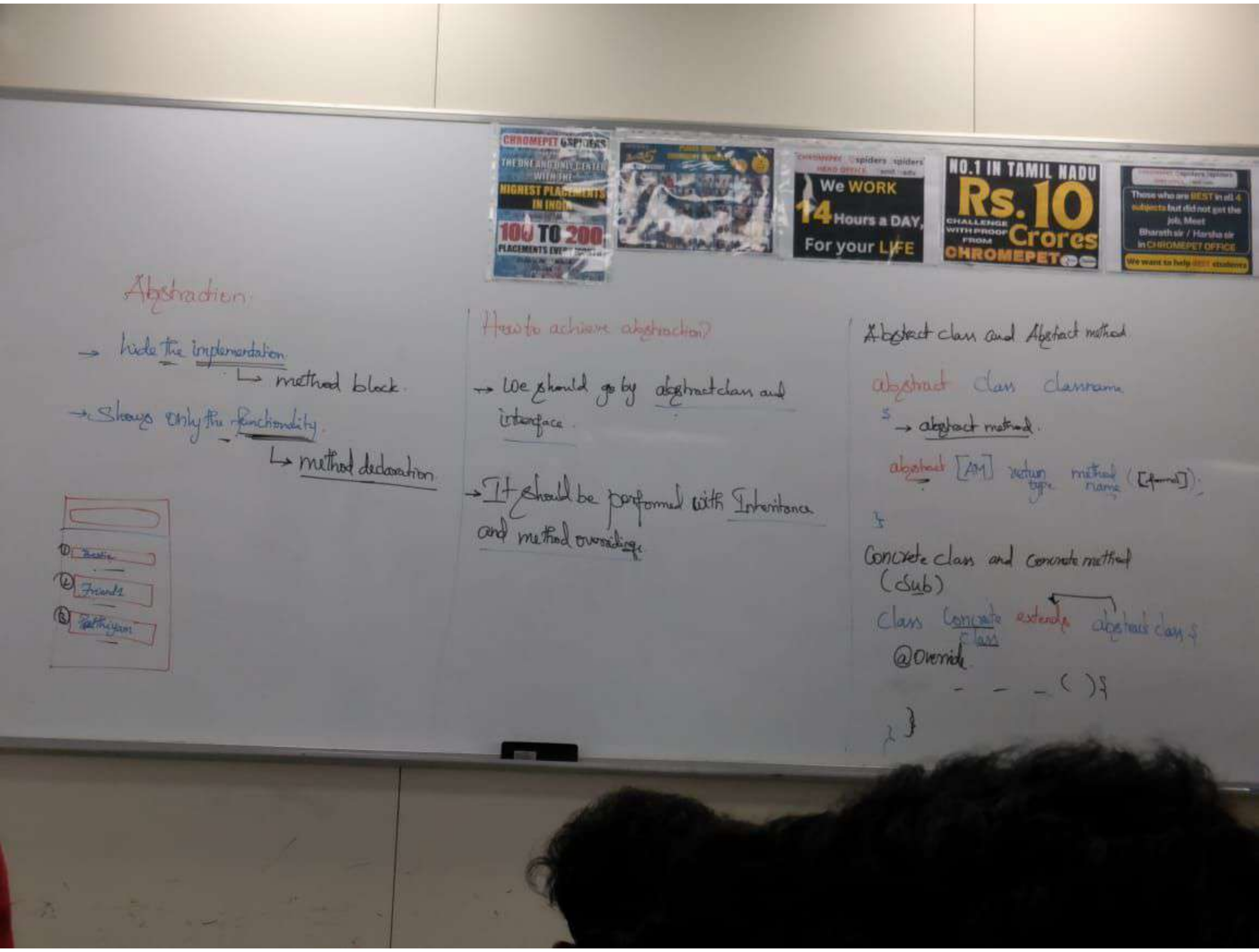
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Abstraction:

→ hide the implementation
↳ method block.

→ Shows only the functionality.
↳ method declaration

① Bestie
② Friends
③ Sathiyam

How to achieve abstraction?

→ We should go by abstract class and interface.

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Abstract class and Abstract method

```
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  → abstract method.
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Concrete class and concrete method
(Sub)

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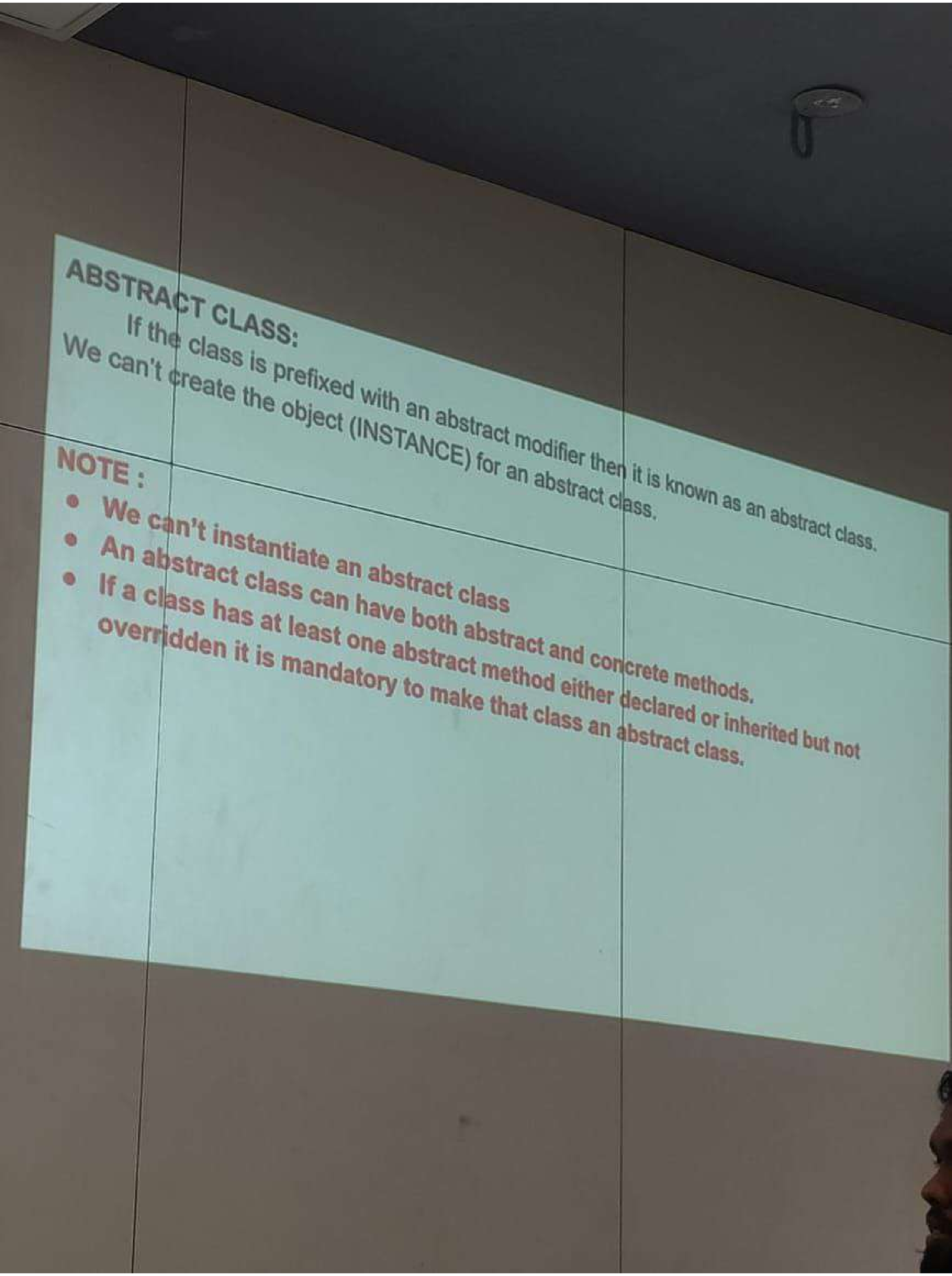
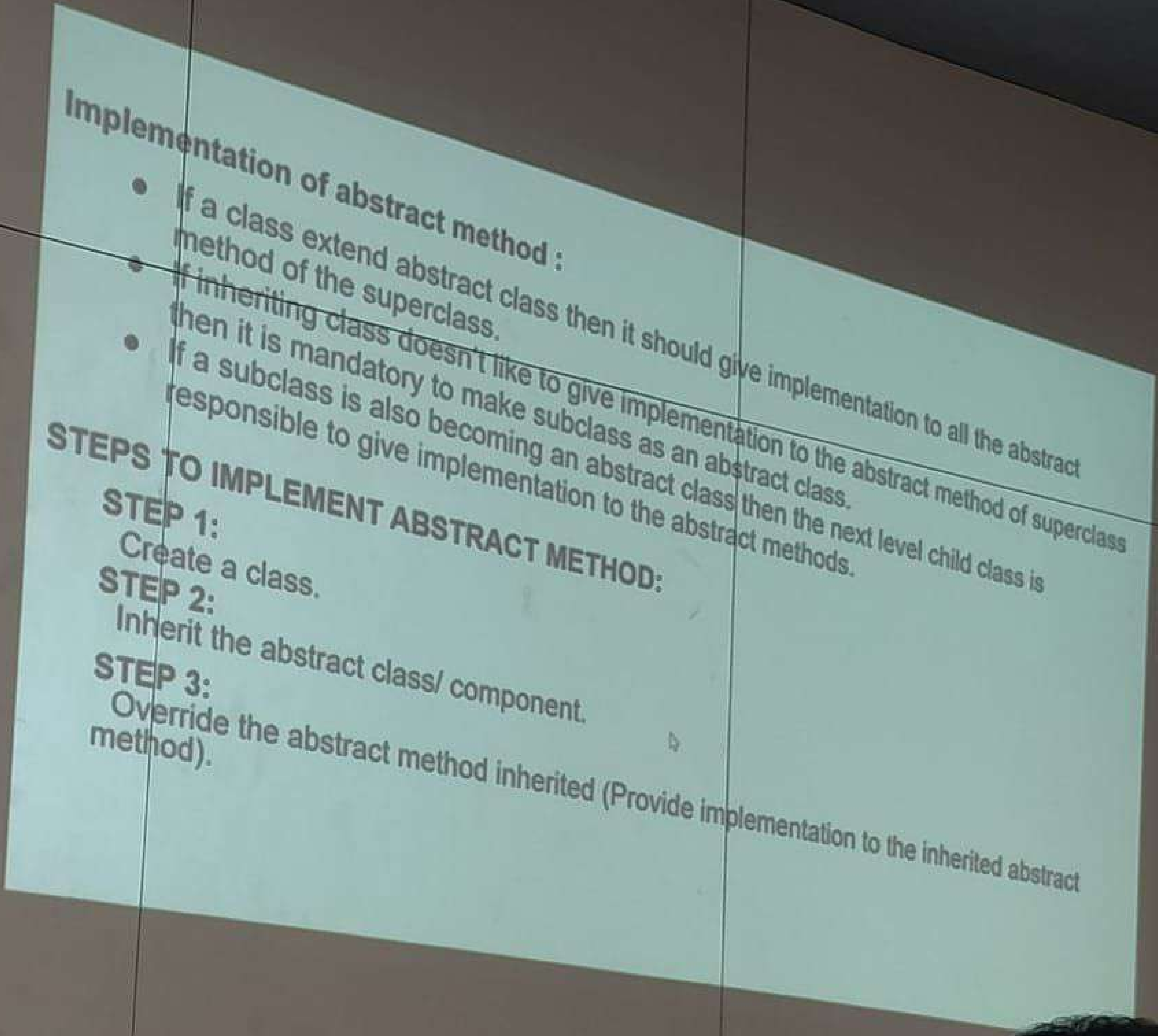


## ABSTRACT CLASS:

If the class is prefixed with an abstract modifier then it is known as an abstract class.
We can't create the object (INSTANCE) for an abstract class.

**NOTE :**

- **We can't instantiate an abstract class**
- **An abstract class can have both abstract and concrete methods.**
- **If a class has at least one abstract method either declared or inherited but not overridden it is mandatory to make that class an abstract class.**



## Implementation of abstract method :

- If a class extend abstract class then it should give implementation to all the abstract method of the superclass.
- If inheriting class doesn't like to give implementation to the abstract method of superclass then it is mandatory to make subclass as an abstract class.
- If a subclass is also becoming an abstract class then the next level child class is responsible to give implementation to the abstract methods.

## STEPS TO IMPLEMENT ABSTRACT METHOD:

**STEP 1:**

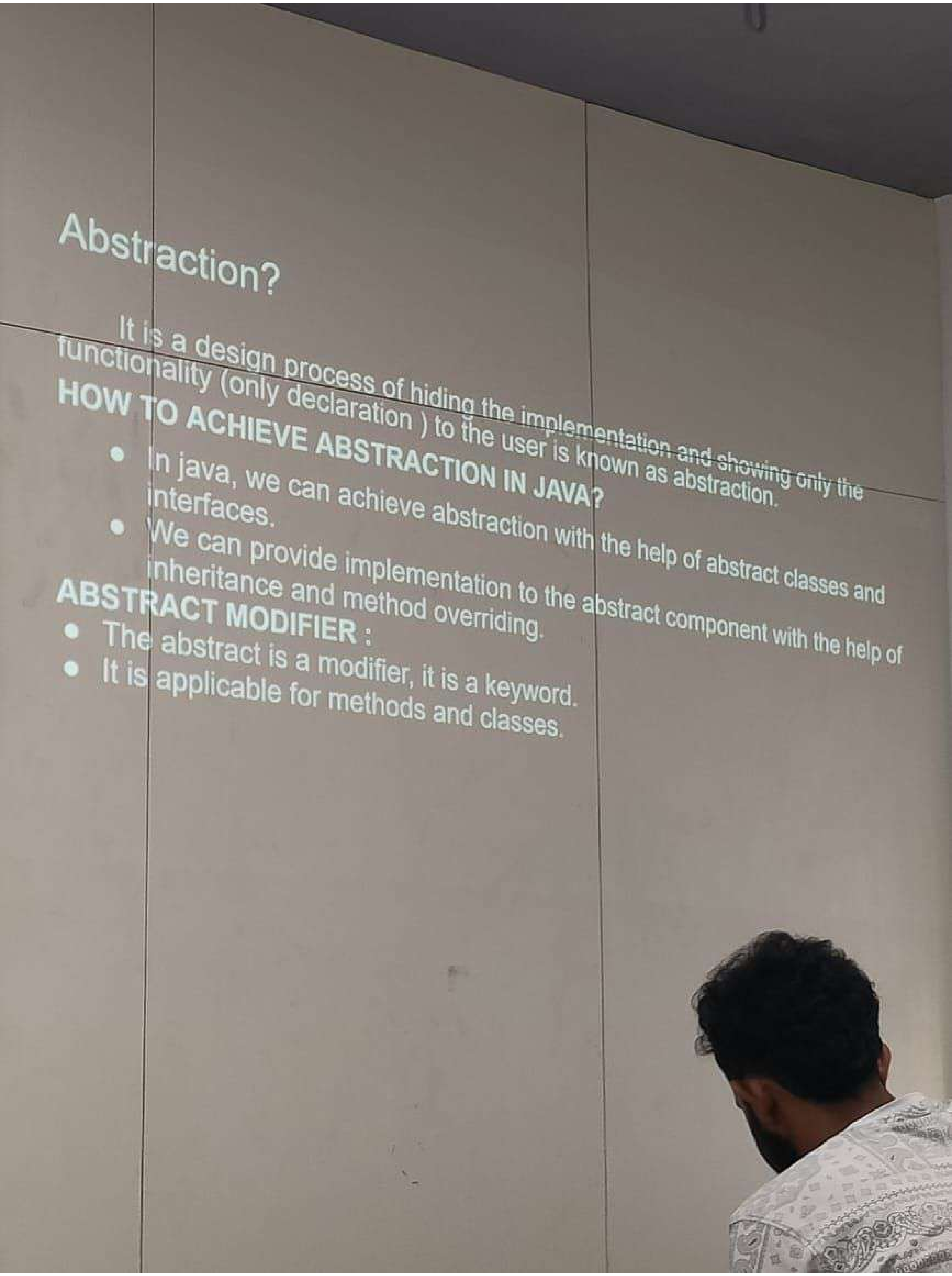
Create a class.

**STEP 2:**

Inherit the abstract class/ component.

**STEP 3:**

Override the abstract method inherited (Provide implementation to the inherited abstract method).



# Abstraction?

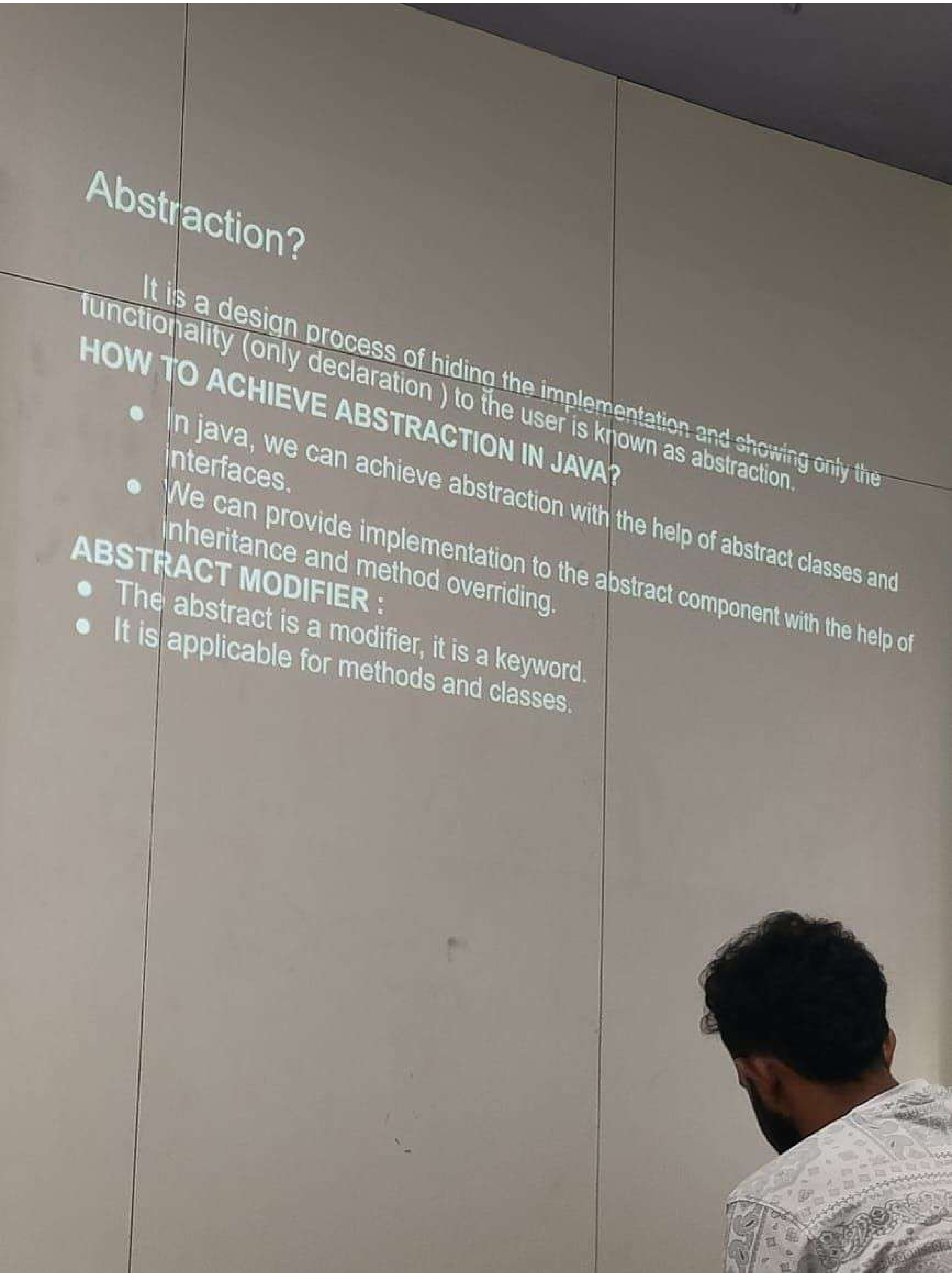
It is a design process of hiding the implementation and showing only the functionality (only declaration ) to the user is known as abstraction.

**HOW TO ACHIEVE ABSTRACTION IN JAVA?**

- In java, we can achieve abstraction with the help of abstract classes and interfaces.
- We can provide implementation to the abstract component with the help of inheritance and method overriding.

**ABSTRACT MODIFIER :**

- The abstract is a modifier, it is a keyword.
- It is applicable for methods and classes.



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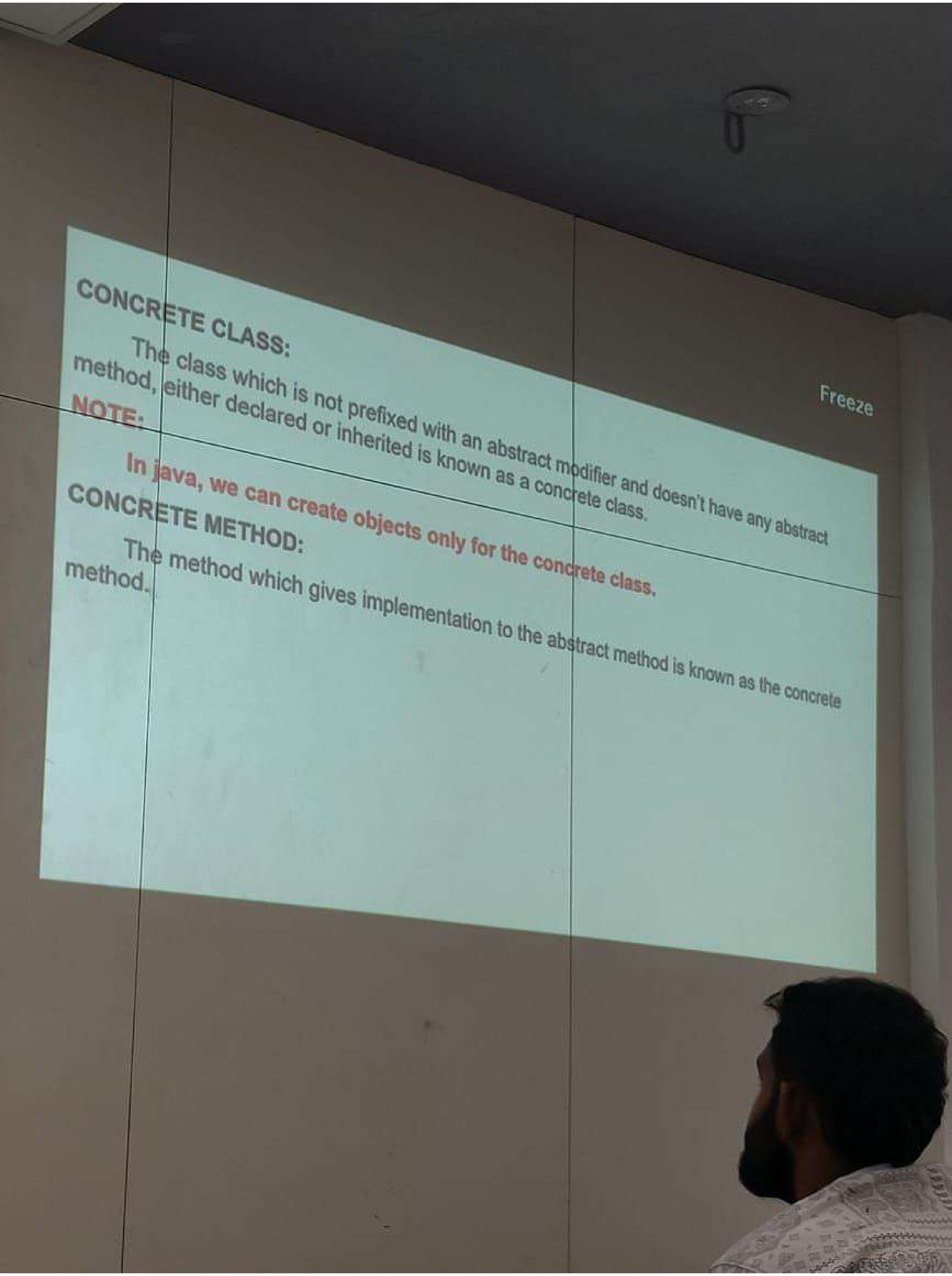

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**CONCRETE CLASS:**

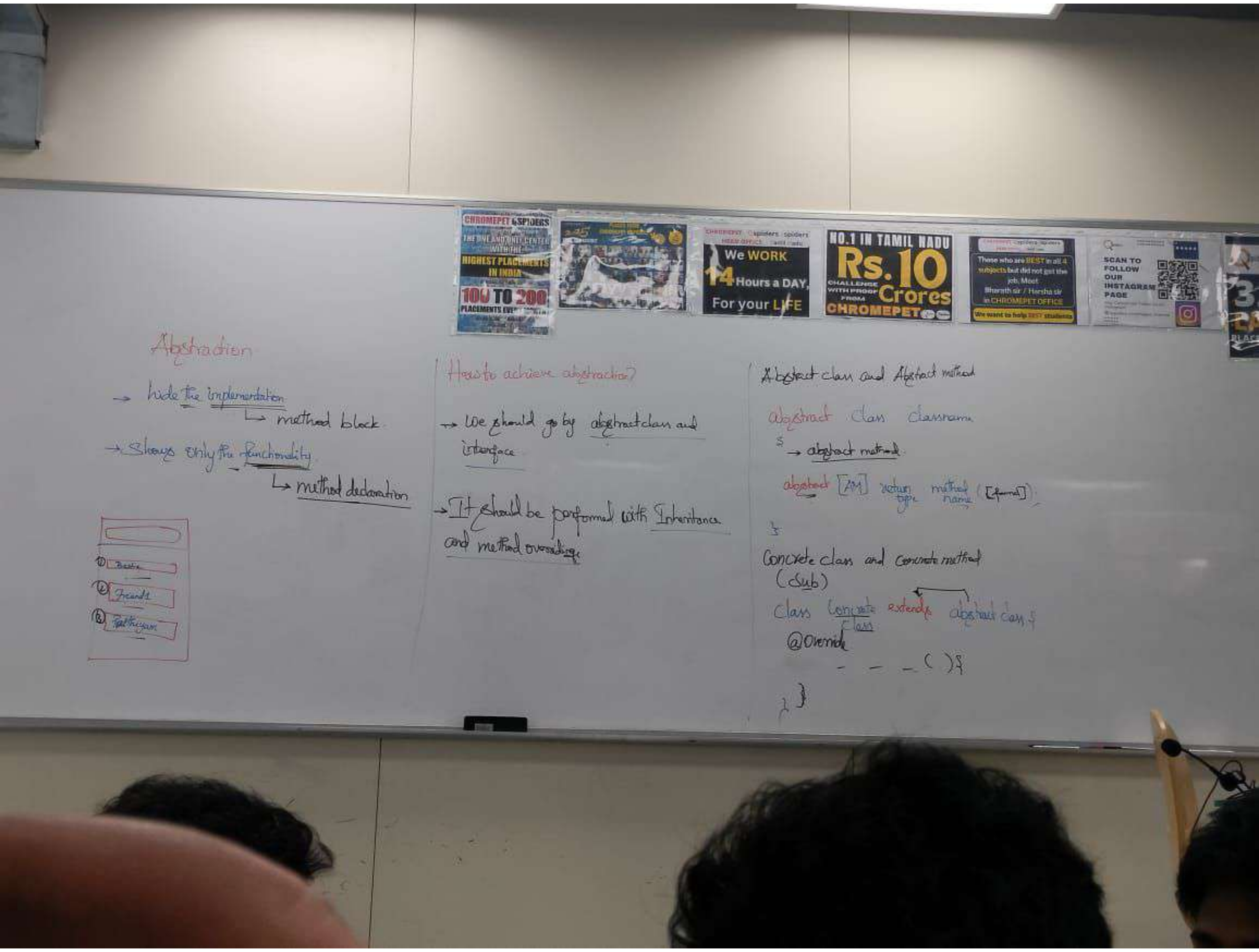
The class which is not prefixed with an abstract modifier and doesn't have any abstract method, either declared or inherited is known as a concrete class.

**NOTE:**

**In java, we can create objects only for the concrete class.**

**CONCRETE METHOD:**

The method which gives implementation to the abstract method is known as the concrete method.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① Basic
② Friends
③ Sathiyam

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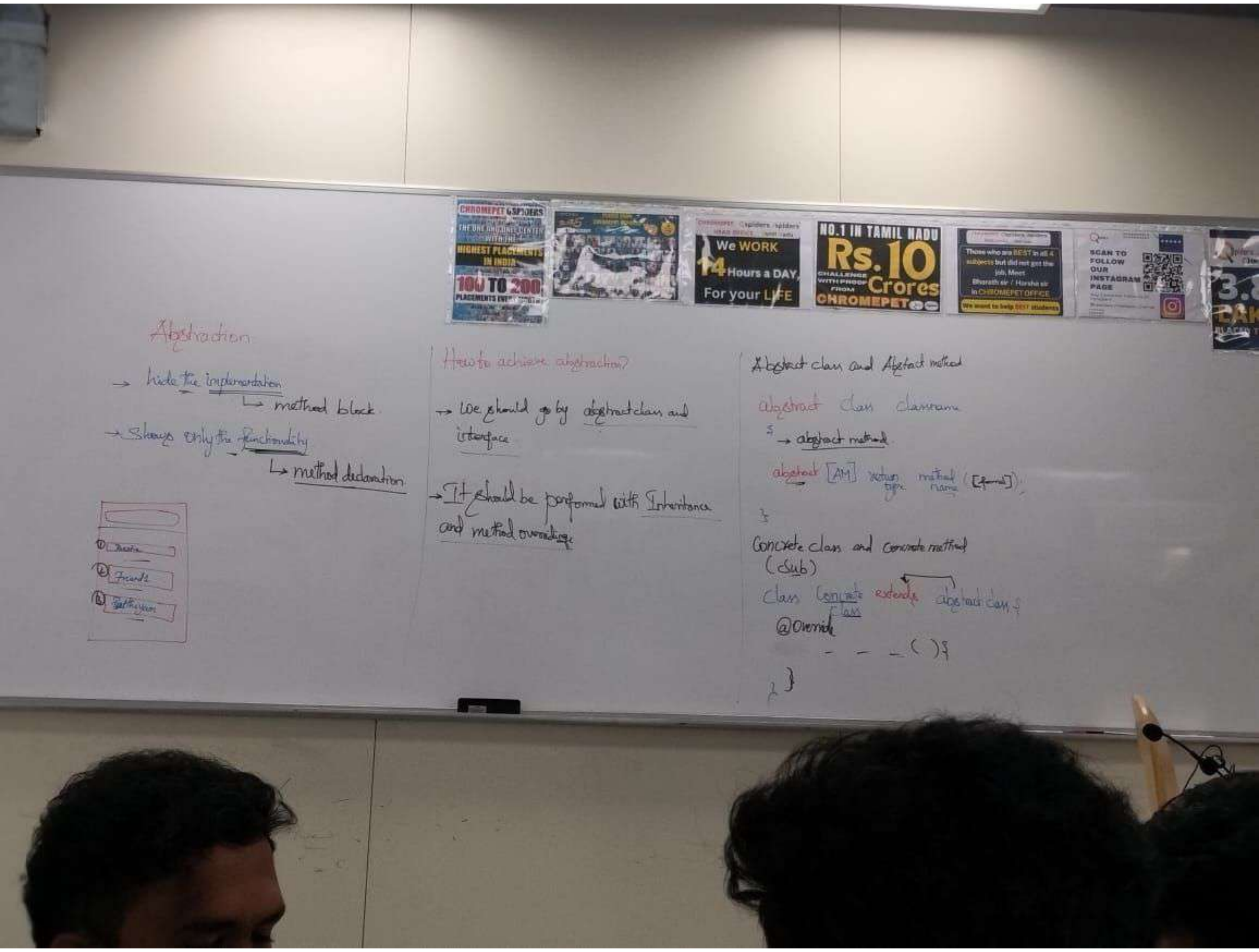
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① [illegible]
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③ [illegible]

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