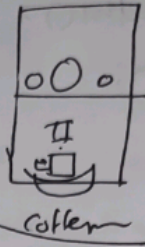


#Singleton Class

→ It is a class which can create only one object from it.
→ In such case whenever we want to use it we have to transfer same object whenever we needed.

Ex: → You have one common bathroom in 349 people

→ singleton class is class
so we can have constructor
for it.



Ex: a coffee machine in office and it can be used by different person

So as a
⇒ the access specifier for
~~the~~ constructor of singleton class is private

⇒ So as we already know static methods & variables are common for whole class

→ so let's create a static function which can return object of single class & we can use it whenever needed.

→ As it is static so it has single reference & it is initially null.

Ex: Code

```
class coffee machine {  
    Refrence  
    static private ref = Null; → initially is null  
    // function  
    static public coffeemachine getObject() {  
        If (ref = Null)  
            return new  
            - Our = new (coffeemachine());  
        return Our;  
    }  
}
```

Such like that you have a public function to access object & it contains private reference & it is common for whole class

⊕ you can't use constructor to get this object so
coffemachine a = new coffemachine();

Not possible as we want create singleton class,

~~coffemachine z = getobject();~~

coffemachine z = ~~get~~ coffemachine.getobject();

we can access static members by using classname
itself

- ⊕ Requirements for singleton class
- Ⓐ a private reference of class which is static → initially null
 - Ⓑ a private constructor
 - Ⓒ a public method to get object