

← The Static Keyword →

• Non Access Modifier

[•] If we want to access class members without creating instance of the class, we need to declare the class member static.

[•] • Static variables can be accessed by calling the class names of class.

• There is no need to create the instance of the class for accessing the static keyword variables.

• Because static variables are the class variables and are shared among all the class instance.

[•] Static Keyword Can be used with

1. Variable

[Class level]

2. Methods

3. Block

4. Inner Class

[Nested Class]

Q. The static variable can be used to refer to the common property of all objects.

→ Static Variable

```
class Test
{
    static int a = 10;

    void m1()
    {
        static int b = 20; // error
    }
}
```

- Only class level variables can be defined as static variables.

Q.

The static keyword in java is used for memory management mainly.

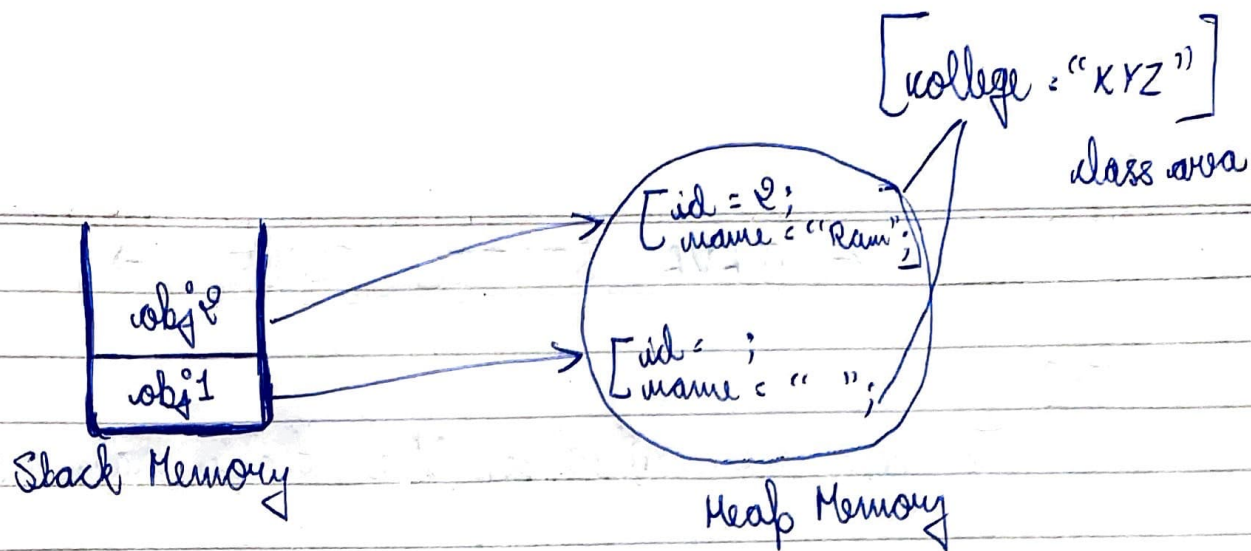
Q.

If we apply the static keyword then the thing will be of particular class.

→ Static Variable ←

```
class Student
{
    int roll No;
    String name;
    static String college = "XYZ University";
}
```


3



← JAVA STATIC METHOD →

[•]

If you apply static keyword with any method, it is known as static method.

[•]

A static method belongs to the class rather than the object of a class.

[•]

A static method can be invoked without the need for creating an instance or object of a class.

[•]

A static method can access static data members and can change the value of it.

← JAVA STATIC BLOCK →

[0]

Is used to initialize the static data member.

[1]

Static block is executed before the main method at the time of classloading.

[2]

```
class XYZ
{
```

```
    static
    {
```

```
        System.out.println("This is a Static block");
    }
```

```
    public static void main (String args [])
    {
```

```
        System.out.println("This is main");
    }
```

```
}
```