Department:- BCA
Faculty Name:- Er. Ashish Kumar
Subject:- JAVA(5th sem)
Topic:-Methods in java

Java static keyword

- The **static keyword** in Java is used for memory management mainly.
- We can apply static keyword with variables, methods, blocks and nested classes.
- The static keyword belongs to the class than an instance of the class.

The static can be:

1. **Variable (also known as a class variable)**
2. **Method (also known as a class method)**
3. **Block**
4. **Nested class**

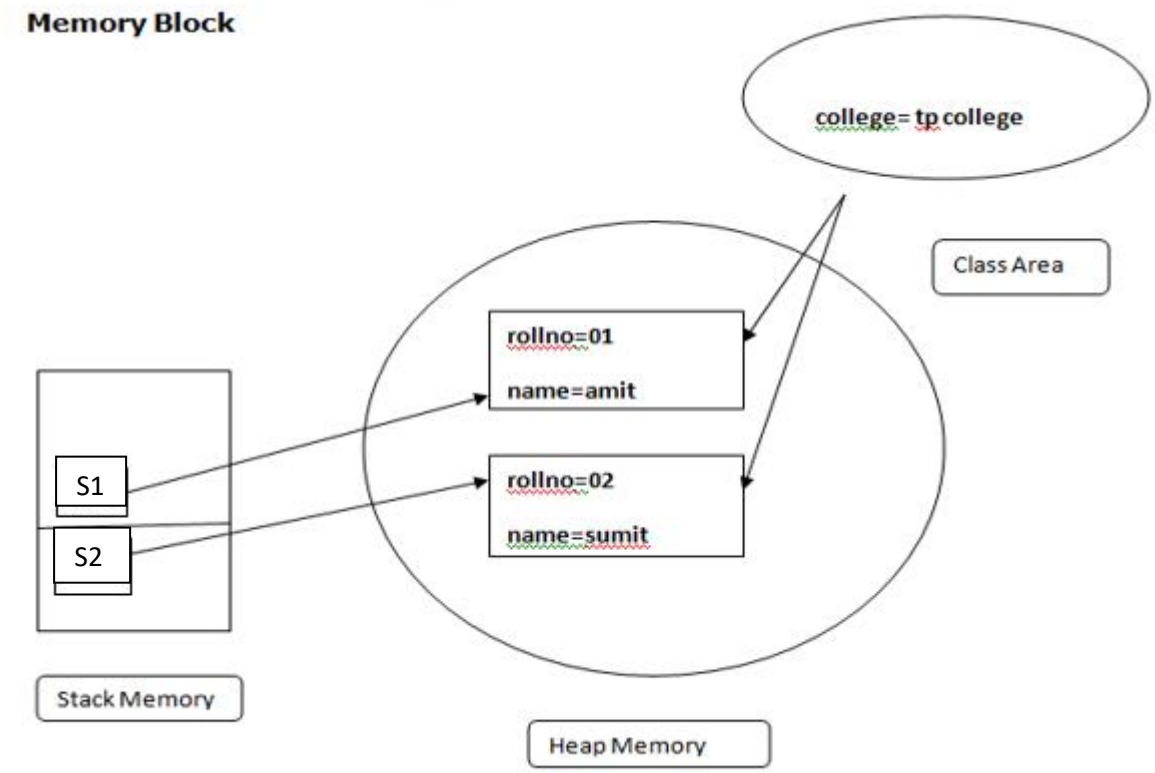
1. **static variable :-**

- If we declare any variable as static, it is known as a static variable.
- The static variable can be used to refer to the common property of all objects (which is not unique for each object), for example, the company name of employees, college name of students, etc.
- The static variable gets memory only once in the class area at the time of class loading.
- It makes your program **memory efficient** (i.e., it saves memory).

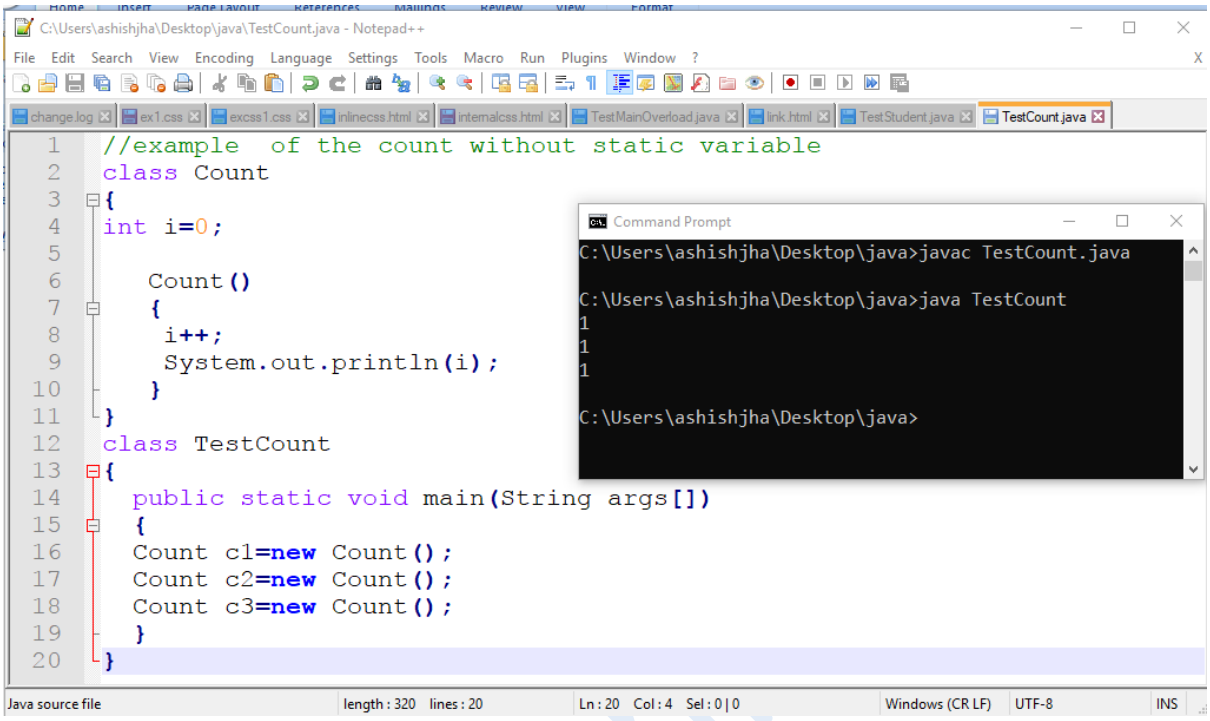
Example:-

```java
//Example of static variable.
class Student
{
    int rollno;//instance variable
    String name;
    static String college ="tp college";//static variable
    //constructor
    Student(int r, String n)
    {
    rollno = r;
    name = n;
    }
    //method to display the values
    void display ()
    {
    System.out.println(rollno+" "+name+" "+college);
    }
}

class TestStudent
{
     public static void main(String args[])
     {
     Student s1 = new Student(01,"amit");
     Student s2 = new Student(02,"sumit");
     s1.display();
     s2.display();
     }
}
```

```
C:\Users\ashishjha\Desktop\java>java TestStudent
1 amit tp college
2 sumit tp college

C:\Users\ashishjha\Desktop\java>
```



Example(Program of the count without static variable)



Example(Program of the count with static variable)