Difference between constructor and method in java

There are many differences between constructors and methods. They are given below.

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| **Java Constructor** | **Java Method** |
| Constructor is used to initialize the state of an object. | Method is used to expose behaviour of an object. |
| Constructor must not have return type. | Method must have return type. |
| Constructor is invoked implicitly. | Method is invoked explicitly. |
| The java compiler provides a default constructor if you don't have any constructor. | Method is not provided by compiler in any case. |
| Constructor name must be same as the class name. | Method name may or may not be same as class name. |

# **Java static keyword**

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

The static can be:

1. variable (also known as class variable)
2. method (also known as class method)
3. block
4. nested class

## 1) Java static variable

If you declare any variable as static, it is known static variable.

* The static variable can be used to refer the common property of all objects (that is not unique for each object) e.g. company name of employees,college name of students etc.
* The static variable gets memory only once in class area at the time of class loading.

### **Advantage of static variable**

It makes your program **memory efficient** (i.e it saves memory).