Static : variables and methods

A static variable is a variable that can be shared by all the objects of same class. A static variable once initialized cannot be redeclared. Static keyword must be specified before the variable name. It can be accessed by the class name. The user needs not to create an object for the class in which it is defined.

Similarly a static method is one whose implementation is exactly the same for all the objects of particular class. A static method will have access to static data only.

Properties of Static Variables:

1. They share the same value for all the objects of the class.
2. They share the same memory location for all the objects.
3. They can be accessed without objects.

Properties of Static methods:

1. Static methods can be accessed without creating an object for the class.
2. Static methods have access to only static variables.
3. Static methods can be called directly from static methods.