Static local variable

Static member variable

Static member functions

Static local variable:

In any function when we define a variable starting from keyword static then that varible will be said as static local variable.

* Static local variable will get the memory when program will start execution,whereas a normal variable will get the memory when the function is executed
* A static local variable has its value = 0 by default, wheras a simple variable has garbage value inside it.
* The scope of staic local variable is lifetime but scope of simple variable is inside that function.
* Whenever in a function if a simple variable is called again and again then this varibale will born again and again and destroyed again and again.

Whereas in static local variable ,the memory is given to it only one time, this varibale will not born again and again or destroyed again and again.

Static member variable:

* Declared inside the class body
* Also known as class member variable
* They must be defined outside the class
* Static member variable doesnot belongs to a particular object but to the whole class
* There will be only ONE COPY OF STATIC MEMBER VARIABLE inside the class
* Any object can use the same copy of that variable
* They can also be used by calss name.

THOSE MEMBER VARIABLES WHICH ARE DECLARED WITHOUT THE USE OF STATIC KEYWORD ARE KNOWN AS INSTANCE MEMBER VARIABLE.

DECLARTION OF STAIC MEMBER VARIABLE:

Class account:

{

Int balance;

Staic float rate\_of\_interest;

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}

Float Account:: rate\_of\_interest;

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}