Agenda

① static keyword

② static local variable

③ class variables or static member variables

④ static member functions

Static

In C++, static Keyword can be used in the following places:

- static local variables $\longrightarrow$ C/C++

- Static Member variables $\longrightarrow$ C++

- static Member Functions $\longrightarrow$ C++

Static Member Variables

```cpp
Class Item
{
    public :
        int a,b;
        static int k;
};

int main()
{
    Item i1,i2;
    i1.a=5;
}
```

i1 | a: 5 | b: |
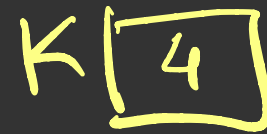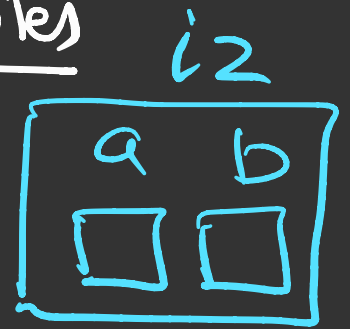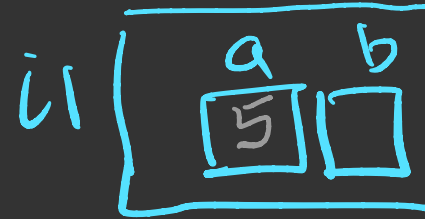
i2

a | b |

K | 4 |

Static member variable needs to define outside the class body

data type className :: staticVariable ;

There is only one copy of static member variable in the memory for entire class

static member variables do not belongs to the object of class, but object can access static member variable using dot operator

static member variable == class variable

Static Member Functions

static member function are qualified
with the keyword static

non member function can never be static

static member function can only access
static members of the class

member functions in class not
performing object specific job, should
be static member function

class → <u>Account</u>

a1   a2   a3

instance member {
balance

showBalance()

roi

static   roi

static   showRoi( )

Imf   calculateInterest( )