Sunday, 4 October 15

Launchpad
Lecture -12

Object Oriented
Programming-1

Ankush Singla

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Inline Functions?

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Default Value of Arguments?

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Cin.getLine()

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Global Variables?

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Static Local Variable?

Header Files

Object Oriented Programming

C++ Classes

1. Classes & Objects
2. Data
3. Functions

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Classes & Objects

1. Blueprint to generate instances of same nature

2. Each individual instance is an object

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Access Modifiers

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How to create Objects?

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Default methods with every class

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Constructor and Default Methods

1. Constructor(Java and C++)
2. Copy Constructor(C++)
3. Copy Assignment Operator(C++)
4. Destructor(C++)

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User defined constructors

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When are objects created on the stack and when are they created on the heap?

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Lets look at examples

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Shallow & Deep copy

Initialization List

Const Data Members

Reference Data members

Static Data Members

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Constant Functions

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Operator Overloading

Operator Overloading

```cpp
class pair
{
        public:
        int x,y;
        bool operator < ( const pair& p ) const
        {
                if(x==p.x) return y<p.y;
                return x<p.x;
        }
};
```
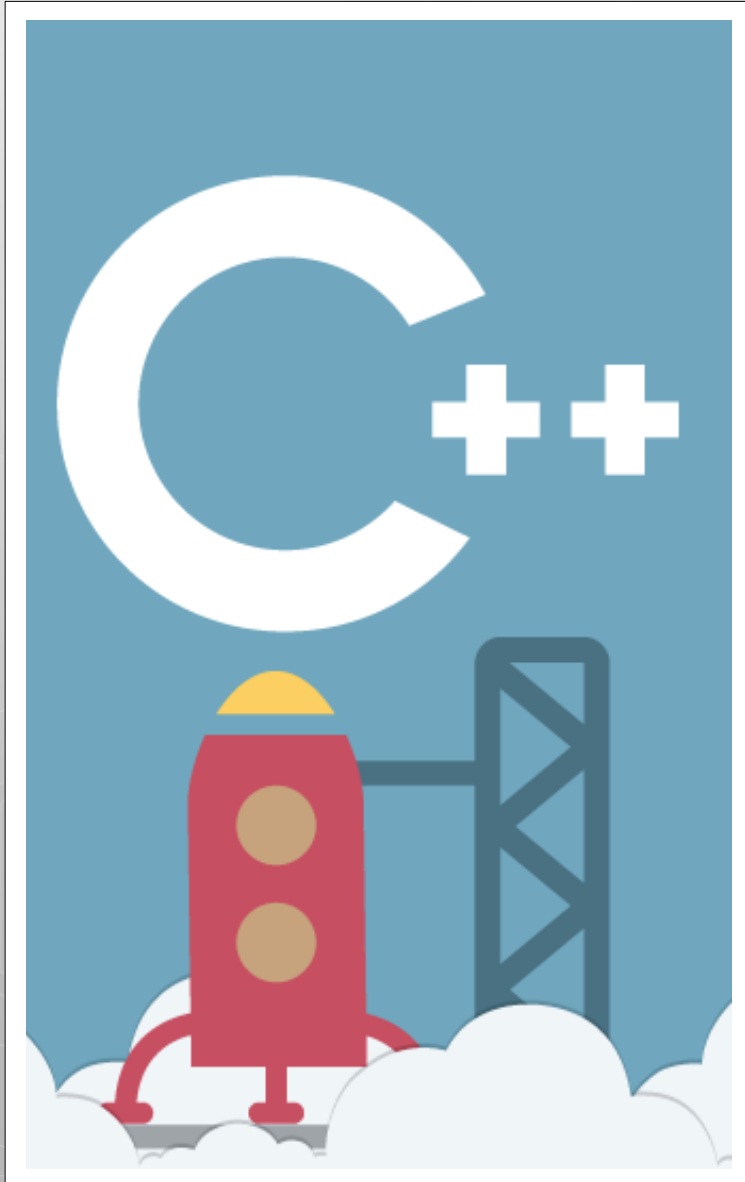
Static functions

Self Referential Classes

How to enable operator Cascading?

Friend Classes & Functions

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Thank You!

Ankush Singla
ankush@codingblocks.com