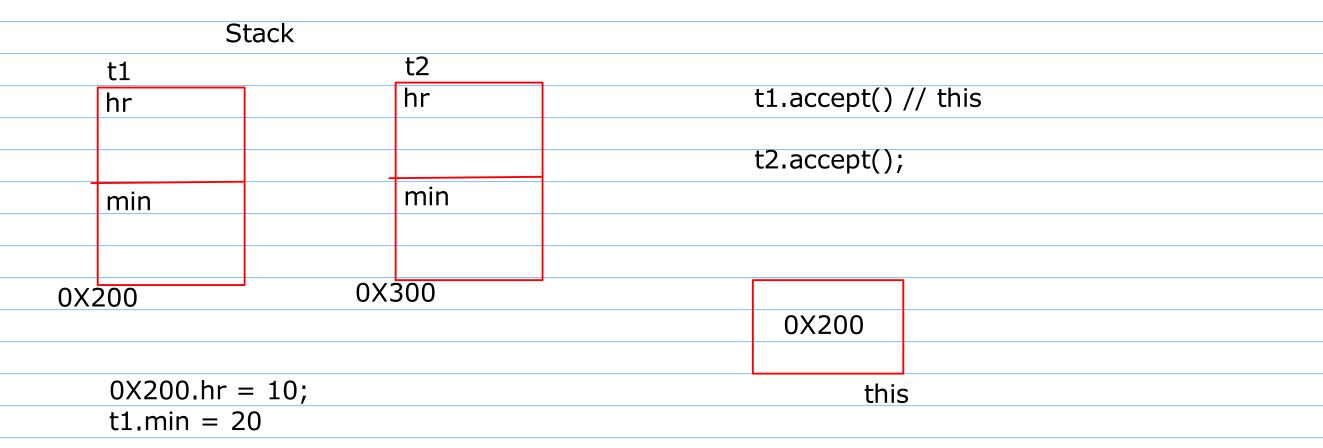
#### this Pointer

- It is a constant pointer passed internally to all the non static member functions of the class
- This pointer points to the current calling object



# Types of member functions

- 1. Constructor
- 2. Destructor
- 3. Mutator (Setter)
- 4. Inspector
- 5. Facilitator

#### Constructor

- It is a special Member Function
- 1. The name of Ctor is same as that of the class name
- 2. Ctor do not have any return type
- 3. the ctor gets called automatically when the object is created

### Types of Constructor

- 1. Default/Parameterless
- 2. Parameterized Constructor
- 3. Copy Constructor

int n = 10; ptr -> &n
int \*ptr = &n; &ptr -> address of the ptr
\*ptr -> value of the n

Its own Syntax

#### Ctor members initializer list

- It is a list that is used to initialize the state of an object in the same way in which the data memebrs are declared
- We cannot use this in the ctor members initializer list
- First the ctor members initializr list will be executed first and then the ctor body

## Constructor Delegation (Java->Ctor Chaining)

#### Destructor

- It is a special member function of the class
- The name of dtor is same as that of class name but with a tild sign (~)
- It does not have any return type
- It gets called when the object goes out of scope
- The dtor calling sequence is exactly opposite to that of ctor calling sequence

# Ctor Delegtion

Task -> Login & Registration(Team Lead)

