CMSC 132: Object-Oriented Programming II

Static Member
Message Class

Important message

For ________________________________
From ________________________________
Time ___________________ Date ___________________
Phone ________________________________
☐ URGENT!

Message

______________________________
______________________________
______________________________
______________________________

class MessagePad{
    private String for;
    private String from;
    private Time time;
    private Date date;
    private boolean urgent;
    private String Message;
}

Message Class
Message Class

<table>
<thead>
<tr>
<th>Important message</th>
<th>Alice</th>
<th>Bob</th>
</tr>
</thead>
<tbody>
<tr>
<td>For</td>
<td>Alice</td>
<td>Bob</td>
</tr>
<tr>
<td>From</td>
<td>Bob</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>12:00pm</td>
<td>123-3456</td>
</tr>
<tr>
<td>Date</td>
<td>1/1/2014</td>
<td></td>
</tr>
<tr>
<td>Phone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>URGENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I will see Mad Max tonight.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do you wanna go?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

```java
Message msg = new Message(
    alice,
    bob,
    12:00pm,
    01/01/2014,
    123-3456,
    false,  //urgent
    "I will see Mad Max.."
);
```
class MessagePad{
    private static String receivedby;
    private String for;
    private String from;
    private Time time;
    private Date date;
    private boolean urgent;
    private String Message;
}

Message Class
Quiz

Quiz link:
Static Block

- Used for static initializations of a class

- code inside static block is executed only once
  - The first time you make an object of that class
  - Or the first time you access a static member of that class

- static blocks are executed before constructors.
class Test {
    static int i;
    int j;
    static {
        i = 10;
        System.out.println("static block called ");
    }
    Test() { System.out.println("Constructor called"); }
}

class Main {
    public static void main(String args[]) {
        // Although we have two objects, static block is executed only once.
        Test t1 = new Test();
        Test t2 = new Test();
    }
}

Output:
static block called
Constructor called
Constructor called