

# CMSC 132: Object-Oriented Programming II

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## Static Member

# Message Class

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Important  
**message**

For \_\_\_\_\_

From \_\_\_\_\_

Time \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_

☐ URGENT!

Message \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# 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

---

**Important  
message**

For Alice

From Bob

Time 12:00pm Date 1/1/2014

Phone 123-3456

☐ URGENT!

Message I will see Mad Max tonight.

Do you wanna go?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

```
Message msg = new Message(  
    alice,  
    bob,  
    12:00pm,  
    01/01/2014,  
    123-3456,  
    false, //urgent  
    "I will see Mad Max.."  
);
```

# Message Class

---

Important  
**message**

For \_\_\_\_\_

From \_\_\_\_\_

Time \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_

☐ URGENT! .....

Message \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Received by: Cathy

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

# Quiz

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- ▶ [Quiz](#)
- ▶ Quiz link:
- ▶ <http://www.cs.umd.edu/~anwar/quiz/static/java/static/static1.html>

# Static Block

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- ▶ 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.

# Static Block

---

```
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