

## **Analyzing the Novice's Gaze:**

### **Instructions, Stimuli and Tasks**

#### **Instruction given before every recording**

This experiment is about program comprehension. There will be three source codes together with different comprehension questions. Please don't guess the answers. The codes do not contain bugs.

In order to go to the next slide, press the LEFT mouse button. There is no possibility to go back.

## Lesson 1

### Instruction given before the program was presented

Please read and comprehend the following source code. When you are done, press the left mouse button.

Then you will be asked to give a SUMMARY.

### Program

```
public class PrinterClass {  
    public static void main ( String [ ] args ) {  
        System.out.print ( "answer=" ) ;  
        System.out.println ( 40 + 2 ) ;  
    }  
}
```

### Task given after the program was presented

Please give a summary of the program.

Participant's answer:

answer=  
42

## Lesson 4

### Instruction given before the program was presented

Please read and comprehend the following source code. When you are done, press the left mouse button.

Then you will be asked to give a SUMMARY.

### Program

```
public class TextClass {  
    public static void main ( String [ ] args ) {  
        String text = "Hello World!" ;  
        int positionW = text.indexOf ( "W" ) ;  
        int textLength = text.length ( ) ;  
        String word = text.substring ( positionW , textLength - 1 ) ;  
        System.out.print ( text.replace ( word , "Sun" ) ) ;  
    }  
}
```

### Task given after the program was presented

Please give a summary of the program.

Participant's answer:

Replace Word with the string "Sun"

## Lesson 6

### Instruction given before the program was presented

Please read and comprehend the following source code. When you are done, press the left mouse button.

Then you will be asked to give a SUMMARY.

### Program

```
public class PrintPattern {  
    public static void printMethod ( int numberOfRows ) {  
        for ( int row = 1 ; row <= numberOfRows ; row ++ ) {  
            for ( int col = 1 ; col <= row ; col ++ ) {  
                System.out.print ( '*' ) ;  
            }  
            System.out.println ( ) ;  
        }  
    }  
    public static void main ( String [ ] args ) {  
        PrintPattern.printMethod ( 3 ) ;  
    }  
}
```

### Task given after the program was presented

Please give a summary of the program.

Participant's answer:

two for loops for raw (sic!) and col