

7.1 DEBUGGING DIRECTIVES IN OOLONG

```

.method static fahrenheitToCelsius (F)V
.limit stack 2
.var 0 is fahrenheit from begin to end_of_computation
.var 0 is celsius from end_of_computation to end
begin:
    fload_0          ; Push fahrenheit in variable 0
    ldc 32.0         ; Subtract 32
    fsub
    ldc 5.0          ; Multiply by 5
    fmul
    ldc 9.0         ; Divide by 9
    fdiv
end_of_computation:
    fstore_0        ; Now variable 0 is celsius
    getstatic java/lang/System/out Ljava/io/PrintStream;
    fload_0         ; Print variable 0
    invokevirtual java/io/PrintStream/println (F)V
    return
end:
.end method

```

It's also possible in Java for two different variables to have the same name in different parts of a method:

```

{
    int i;
    /* i is variable 1 */
}
{
    int j;
    int i;
    /* Here, j is variable 1 and i is variable 2 */
}

```

To let the debugger know which variable is named what, use this Oolong code:

```

.var 1 is i I from scope1begin to scope1end
.var 1 is j I from scope2begin to scope2end
.var 2 is i I from scope2begin to scope2end
scope1begin:
    ; Here variable 1 is i, and variable 2 is unnamed

```