

```
// Scenario 1 (String Literals, Print no CR LF, PRINTLN CR LF)
```

```
PRINT ("Hello")
```

```
PRINT (" World")
```

```
PRINTLN ("Hi")
```

```
PRINTLN ("Good Morning")
```

```
END
```



The screenshot shows a Java IDE window with the 'Console' tab selected. The title bar indicates the application is 'LexerJava [Java Application]' running at 'C:\Program Files (x86)\Java\jre1.8.0\_101\bin\javaw.exe' on 'Oct 4, 2016, 12:56:15 PM'. The console output displays the results of the first scenario: 'Hello WorldHi' and 'Good Morning' on separate lines.

```
// Scenario 2 (Defining Integer, LET Identifier=expression)
```

```
INTEGER A, B
```

```
LET A=5
```

```
LET B = 6
```

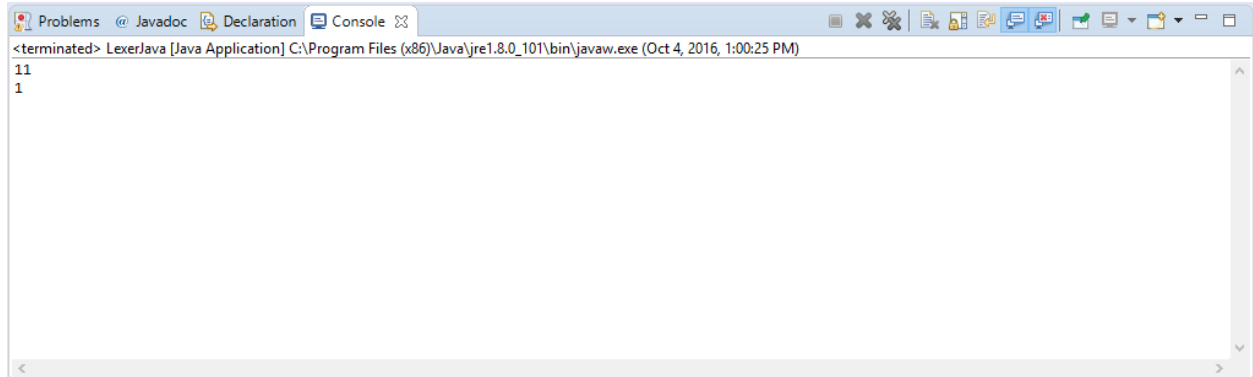
```
PRINTLN (A+B)
```

```
INTEGER C
```

```
LET C = B-A
```

```
PRINTLN (C)
```

```
END
```



The screenshot shows the same Java IDE window with the 'Console' tab selected. The title bar shows the application is 'LexerJava [Java Application]' running at 'C:\Program Files (x86)\Java\jre1.8.0\_101\bin\javaw.exe' on 'Oct 4, 2016, 1:00:25 PM'. The console output displays the results of the second scenario: '11' and '1' on separate lines.

```
//Scenario 3 (Addition, Subtraction, Division, Multiplication, parenthesis, may
contain _)
INTEGER D, E_1, e_2
LET D = 8
PRINTLN (D)
LET E_1 = (D + 8) / 2 //8
PRINTLN (E_1)
LET e_2 = ((E_1 * 3) + 6) /10 //3
PRINTLN (e_2)
INTEGER Final_Total
LET Final_Total = E_1 - e_2 //5
PRINTLN (Final_Total)
END
```

The screenshot shows a Java IDE window with the 'Console' tab active. The title bar indicates the application is 'LexerJava [Java Application]' running at 'C:\Program Files (x86)\Java\jre1.8.0\_101\bin\javaw.exe' on 'Oct 4, 2016, 1:05:38 PM'. The console output displays the results of the code execution: the value 8, followed by 8, then 3, and finally 5.

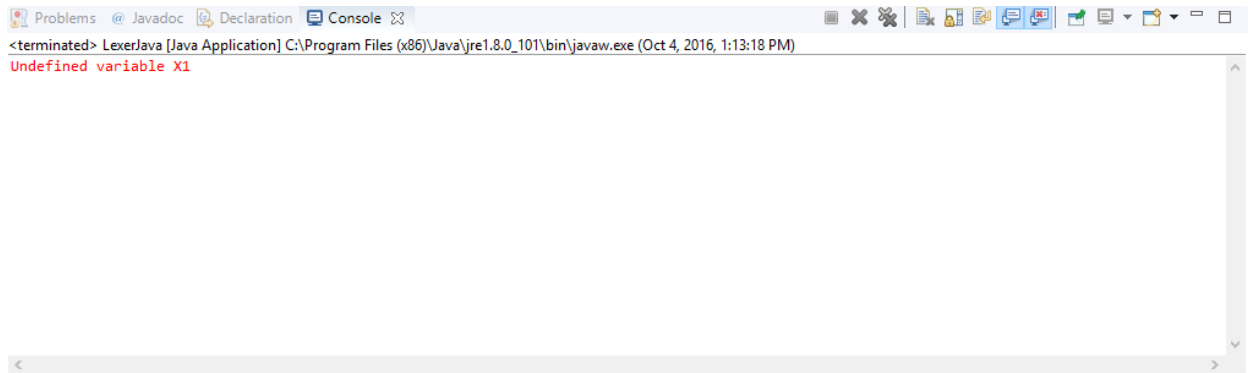
```
<terminated> LexerJava [Java Application] C:\Program Files (x86)\Java\jre1.8.0_101\bin\javaw.exe (Oct 4, 2016, 1:05:38 PM)
8
8
3
5
```

```
//Scenario 4 (cannot be duplicated, are case sensitive)
INTEGER F
PRINTLN (F)
INTEGER f
PRINTLN (f)
INTEGER Duplicate
PRINTLN (Duplicate)
INTEGER Duplicate //error
END
```

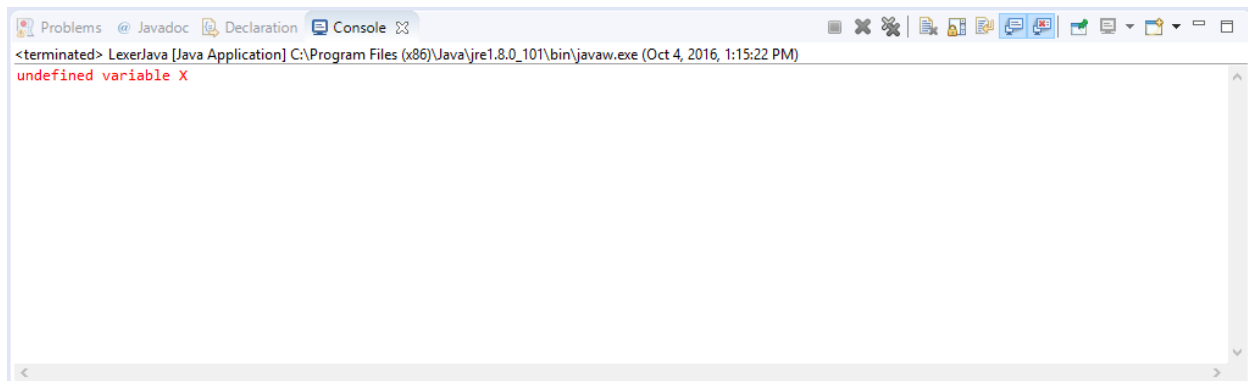
The screenshot shows a Java IDE window with the 'Console' tab active. The title bar indicates the application is 'LexerJava [Java Application]' running at 'C:\Program Files (x86)\Java\jre1.8.0\_101\bin\javaw.exe' on 'Oct 4, 2016, 1:11:09 PM'. The console output shows three zeros, followed by a red error message: 'Variable Duplicate is already defined'. The IDE interface at the bottom shows 'Writable' and 'Smart Insert' modes, and the time '23:4'.

```
<terminated> LexerJava [Java Application] C:\Program Files (x86)\Java\jre1.8.0_101\bin\javaw.exe (Oct 4, 2016, 1:11:09 PM)
0
0
0
Variable Duplicate is already defined
```

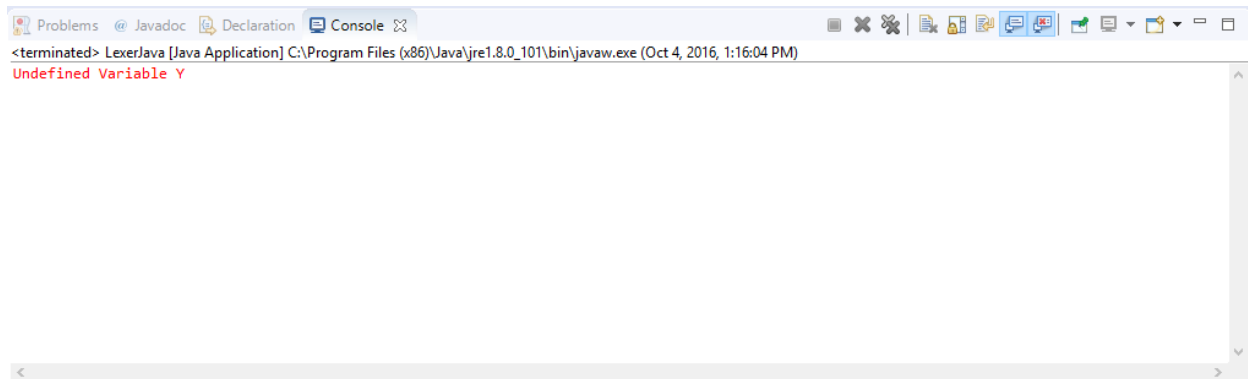
```
//Scenario 5 (Must be defined by integer)
PRINTLN (X1) //Error
END
```



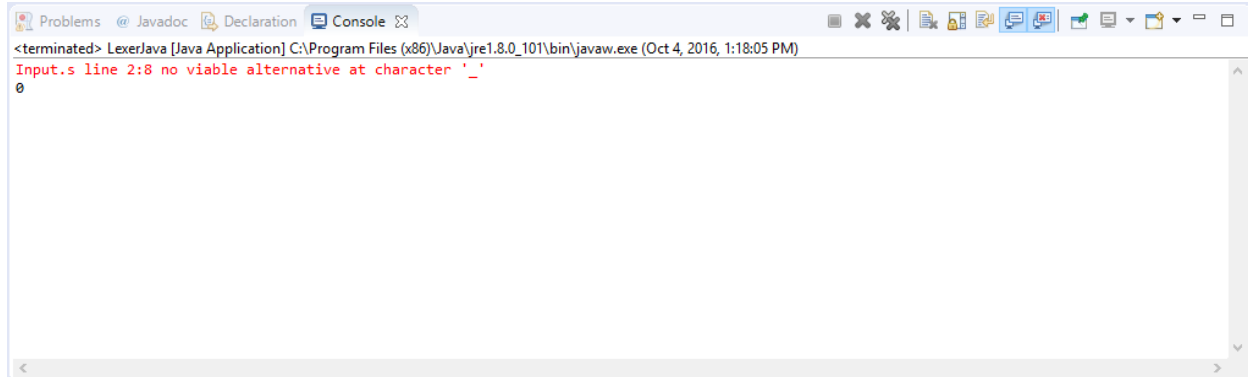
```
//Scenario 5.1 (Must be defined by integer)
LET X = 10 //Error
END
```



```
//Scenario 5.2 (Must be defined by integer)
INPUT Y //Error
END
```

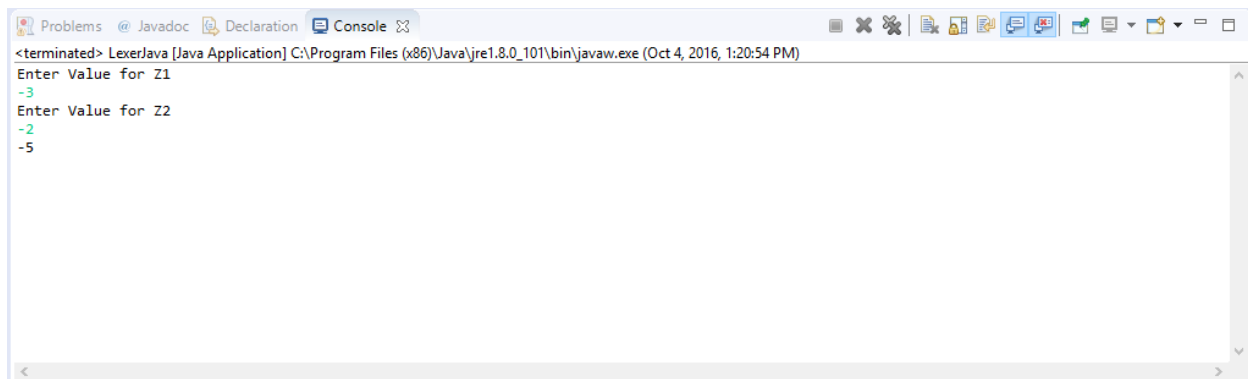


```
//Scenario 6 (Must start with A..Z | a..z and may contain 0..9 and _)  
INTEGER _X //Error  
INTEGER Y_2  
PRINTLN (Y_2)  
END
```



The screenshot shows an IDE window with a tab labeled 'Console'. The console output displays the following text:   
<terminated> LexerJava [Java Application] C:\Program Files (x86)\Java\jre1.8.0\_101\bin\javaw.exe (Oct 4, 2016, 1:18:05 PM)  
Input.s line 2:8 no viable alternative at character '\_'  
0

```
// Scenario 7 (Signed Input)  
INTEGER Z1, Z2  
INPUT Z1 //Enter negative value  
INPUT Z2 //Enter negative value  
PRINTLN (Z1 + Z2)  
END
```



The screenshot shows an IDE window with a tab labeled 'Console'. The console output displays the following text:   
<terminated> LexerJava [Java Application] C:\Program Files (x86)\Java\jre1.8.0\_101\bin\javaw.exe (Oct 4, 2016, 1:20:54 PM)  
Enter Value for Z1  
-3  
Enter Value for Z2  
-2  
-5