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

PRINT ("Hello")

PRINT (" World")

PRINTLN ("Hi")

PRINTLN ("Good Morning")

END

```
Hello WorldHi
Good Morning
```

```
// 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
```
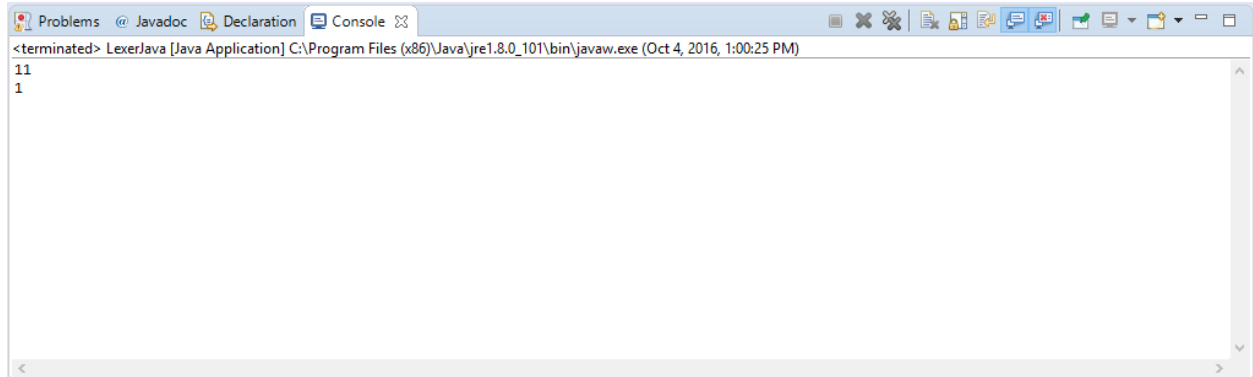
```
11
1
```

```
//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
```

```
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
```

```
0
0
0
Variable Duplicate is already defined
```

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

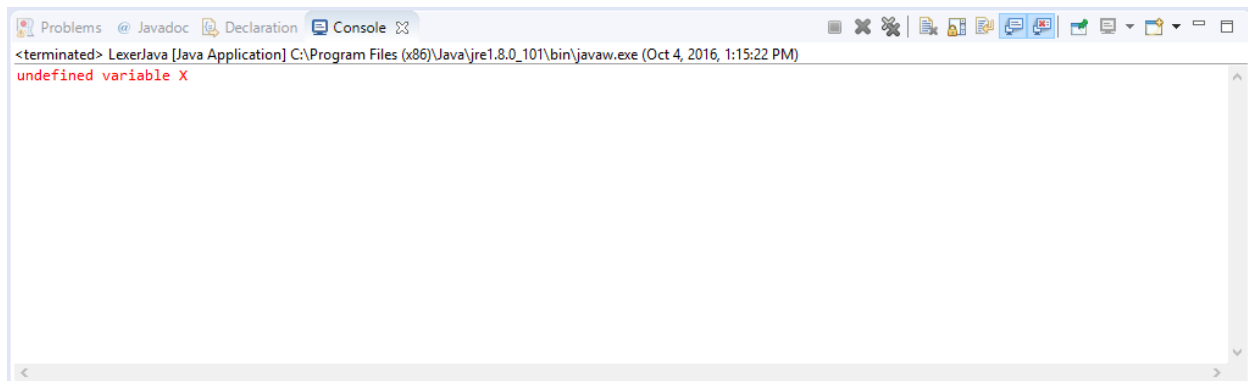Problems   @ Javadoc   Declaration   Console
<terminated> LexerJava [Java Application] C:\Program Files (x86)\Java\jre1.8.0_101\bin\javaw.exe (Oct 4, 2016, 1:13:18 PM)
Undefined variable X1
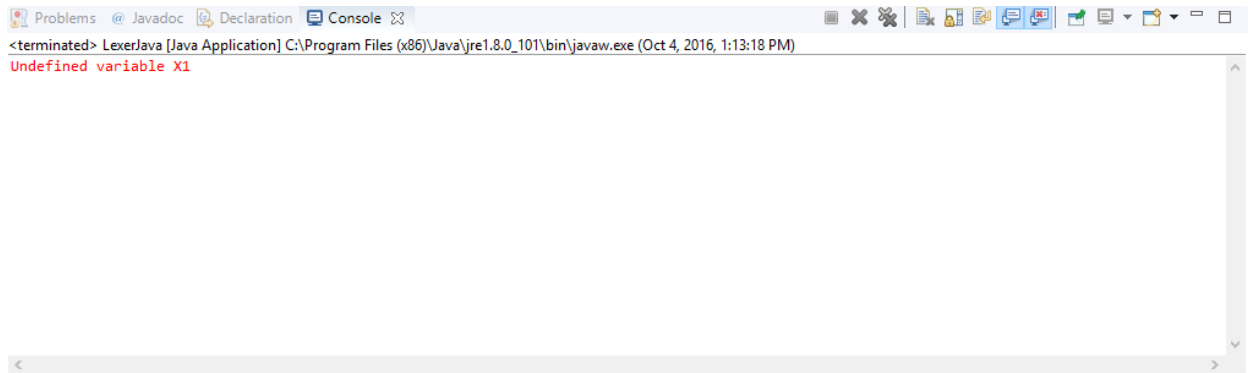
```
//Scenario 5.1 (Must be defined by integer)
LET X = 10 //Error
END
```

Problems   @ Javadoc   Declaration   Console
<terminated> LexerJava [Java Application] C:\Program Files (x86)\Java\jre1.8.0_101\bin\javaw.exe (Oct 4, 2016, 1:15:22 PM)
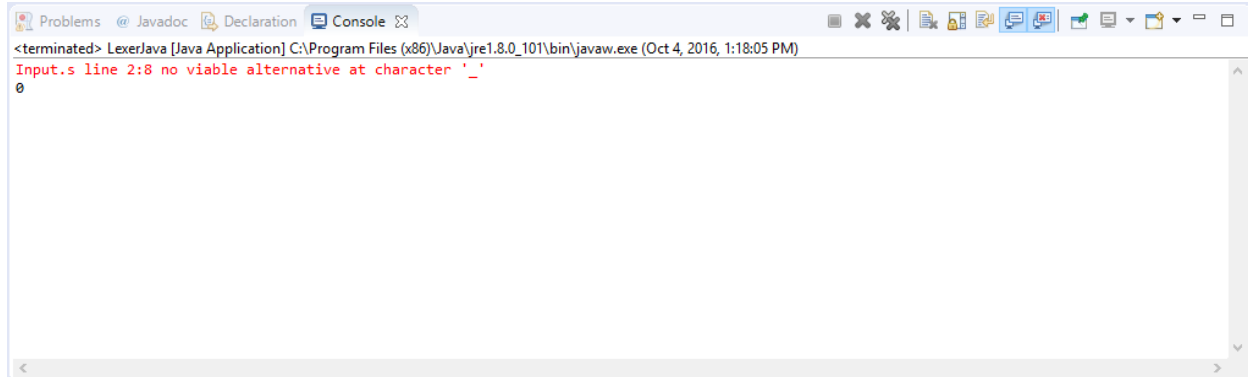undefined variable X

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

Problems   @ Javadoc   Declaration   Console
<terminated> LexerJava [Java Application] C:\Program Files (x86)\Java\jre1.8.0_101\bin\javaw.exe (Oct 4, 2016, 1:16:04 PM)
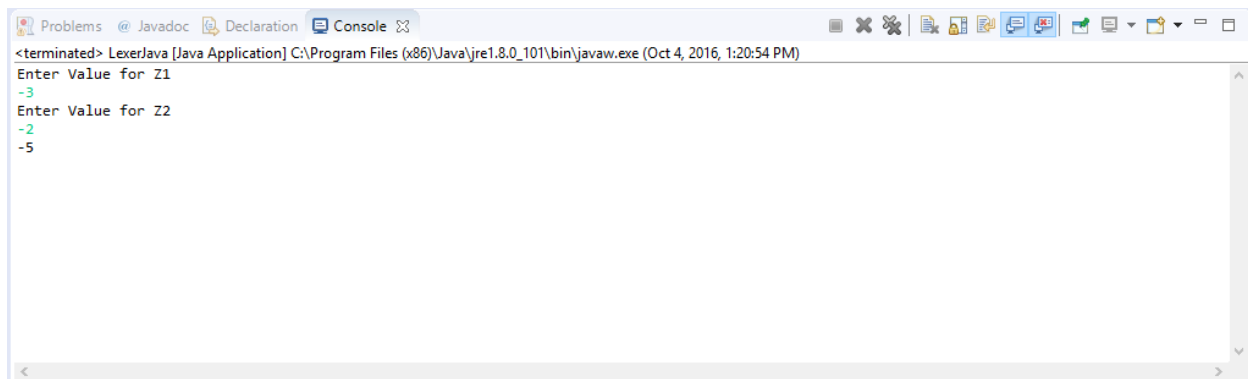Undefined Variable Y
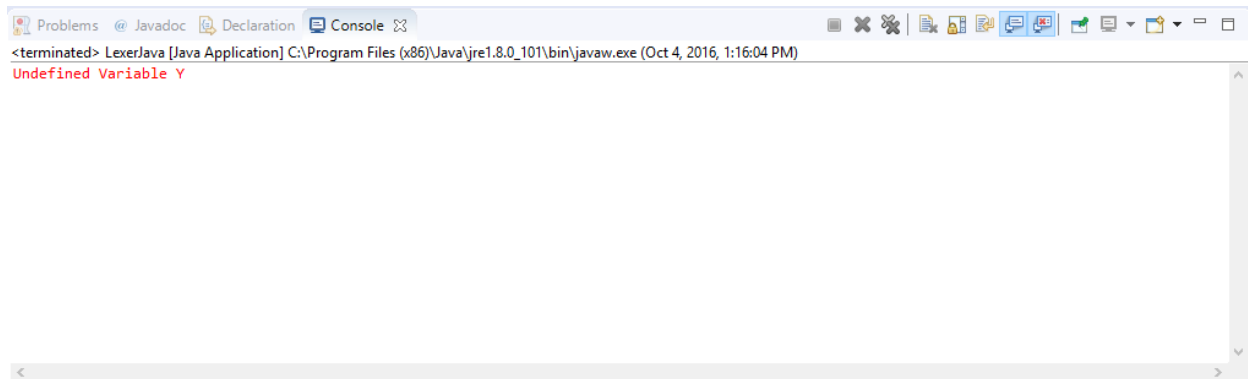
```
//Scenario 6 (Must start with A..Z | a..z and may contain 0..9 and _)
INTEGER _X //Error
INTEGER Y_2
PRINTLN (Y_2)
END
```

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