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The screenshot shows a Windows desktop environment with several open windows. In the foreground, a Code::Blocks IDE window displays a C++ source file named `main.c`. The code contains a function `main` that performs arithmetic operations on variables `a`, `b`, and `c`. A break point is set at line 14. The code is as follows:

```
1 //include <cs50.h>
2 //include <stdio.h>
3
4 int main()
5 {
6     //let a = 25
7     //let b = 5
8     //let c = 25.0
9
10     //print "a + b + c = %f", a + b + c
11     //print "%f + %f + %f = %f", a, b, c, a + b + c
12     //print "(a + b) * c = %f", (a + b) * c
13     //print "%f * (%f + %f) = %f", c, a, b, c * (a + b)
14
15 }
```

When the program is run, it outputs:

```
6 a / b + c = 16
7 b / a + c = 25.000000
8 -c = -25

Process returned 0 (0x0) execution time : 0.072 s
Press any key to continue...
```

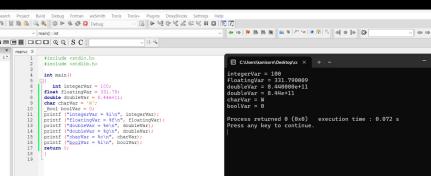
In the background, other windows are visible, including a terminal window showing command-line history and a file explorer window.

The screenshot shows a Java development environment with a code editor and a terminal window. The terminal window displays the following output:

```
133.125000 assigned to an int produces 133
133.125000 assigned to a long produces 13300000000000000000L
-150 divided by 100 produces -1.0000000000000001E-1
-150.0 divided by 100 produces -1.5000000000000002E-1
(Floating point division)
Process returned 0 (0x0) execution time : 0.866 s
Press any key to continue:
```

The code in the editor is as follows:

```
public class Division {
    public static void main(String[] args) {
        System.out.println("133.125000 assigned to an int produces " + 133);
        System.out.println("133.125000 assigned to a long produces " + 13300000000000000000L);
        System.out.println("-150 divided by 100 produces " + -1.0000000000000001E-1);
        System.out.println("-150.0 divided by 100 produces " + -1.5000000000000002E-1);
        System.out.println("(Floating point division)");
    }
}
```



```
Process returned 0 (0x0) execution time : 0.872 s
```

The screenshot shows the Eclipse IDE interface with two main panes. The left pane displays a Java code editor for a file named `Calculator.java`. The code contains several arithmetic operations and prints the results to the console. The right pane shows the output of the program's execution, which includes the calculated values of variables `a`, `b`, `c`, and `d`, and a message indicating the process returned 0.

```
calculator@calculator-OptiPlex-5090:~/Documents$ cd C:/Users/calculator/Desktop/Calculator; javac Calculator.java; java Calculator
a = 25, b = 3, c = -19, and d = 7
a + b = 28, a - b = 22, a * b = 75, a / b = 8.333333333333334
c + d = -12, c - d = -38, c * d = -76, c / d = -2.5
Process returned 0 (0x0)   execution time : 0.076 s
Please see log for continue
```

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தாங்கள்

2. Which of the following are invalid variable names? Why?

[Click here to view code image](#)

Int ✓ என்னவும்	char ✓ என்று 6_05 × கீழானது என்னவும்
Calloc ✓ Xx ✓	alpha_beta_routine ✓
Floating✓ _1312 × என்ன z ✓	
ReInitialize✓ - × என்னென்ன	AS × என்னென்ன

3. Which of the following are invalid constants? Why?

[Click here to view code image](#)

123.456 ✓	0x10.5 × 0X0G1 × 123.6 9.1416
0001 ✓	0xFFFF ✓ 123L ✓
0xab05 ✓	0L ✓ +597.25 ✓
123.5e2 ✓	.0001 ✓ 112 ✓
98.6F ✓	98.7U × 17777S × 112 ✓
0996 ✗	-12E-12V 07777 ✓
1234uL ✓	1.2Fe-7x #15,000 × 112 (எல்லாம் பிராம்பம்)
1.234L ✓	197u ✓ 100U ✓
0XABCDEF1L ✓	0abcu ✓ +123 ✓

The screenshot shows the Code::Blocks IDE interface. On the left, the code editor displays a C program named 'main.c'. The code includes a function 'main' that calculates the sum of two variables 'x' and 'y' and prints the result. On the right, the terminal window shows the execution results: the process ID is 23, the execution time is 0.012 seconds, and it prompts the user to press any key to continue.

```

1 #include <stdio.h>
2
3 int main()
4 {
5     double x, result;
6     x = 3.14;
7     x = 2.71;
8     x = next_multiple();
9     result = x + y;
10    printf("sum = %lf\n", result);
11    return 0;
12 }

```

The screenshot shows the Code::Blocks IDE interface. On the left, the code editor displays a C program named 'main.c'. The code includes a function 'main' that prints the value '209' to the console. On the right, the terminal window shows the execution results: the process ID is 209, the execution time is 0.072 seconds, and it prompts the user to press any key to continue.

```

1 #include <stdio.h>
2
3 int main()
4 {
5     int i, j;
6     for (i = 1; i < 10; i++)
7     {
8         for (j = 1; j < 10; j++)
9         {
10             if (i * j == 209)
11                 printf("Next multiple = %d\n", i * j);
12         }
13     }
14 }

```