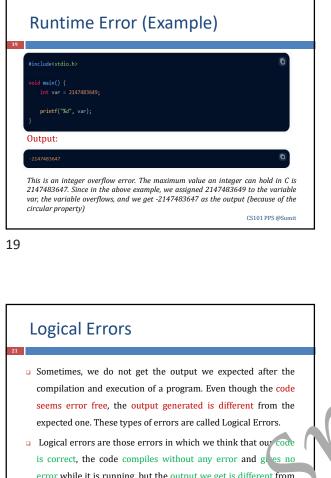


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error while it is running, but the output we get is different from the output we expected.

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Logical Error

In 1999, NASA lost a spacecraft due to a logical error. This happened Lause of some miscalculations between the English and the American Units. The software was coded to work for one system but was used with the other.

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Erlors

#include<stdio.h>

int x = 52;int y = 0;

main() {

Runtime Error (Example)

printf("Div : %f", x/y);

Program crashes during runtime.

Code:

Output:

Logica

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Even if the syntax and other factors are correct, we may not get he desired results due to logical issues. But they seem to be error-free. These are referred to as logical errors.

We sometimes put a semicolon after a loop, which is syntactically correct but results in one blank loop. In that case, it will display the desired output.

Logical Errors (Example) 24 Output: INF signifies a division by zero error. In the above example, at line 8, we wanted to check whether the variable b was equal to zero. But instead of using the equal to comparison operator (==), we use the assignment operator (=). Because of this, the if statement became false and the value of b became 0. Finally, the else clause got executed. CS101 PPS @Sumit



