

Study Guide - Programming Errors

Three kinds of errors...

Syntax Error

- Typo, misspelled keyword, variable, or method name.
- Program will not compile

Logic Error

- Program compiles but does not run as expected
- Problem in the logic of the code, for example incorrect comparison operator.

Run-time Error

- Program compiles and runs but crashes.
- Usually due to unhandled errors or index out of bounds.

Syntax Error Example:

```
itn i;  
s.ToStrong();  
bool done = fasle;  
int total = "100";  
textBlockTotalScore.Text = total;
```

Login Error Example:

```
bool beMeanToHumans = true;  
if (beMeanToHumans)  
{  
    ThrowMoneyToThem();  
}  
else  
{  
    TurnOnFlameThrower();  
}
```

Run-time Error Example:

```
int[] scores = new int[20];  
scores[20] = 100;
```