



Error Handling

COMP16321 – Introduction to Programming 1

Gareth Henshall

Lecturer in Computer Science

Error Handling

Syntax Errors	Semantic Errors	Logic Errors
Essentially represents a grammatical error	Occurs when a computer is asked to do something that it is unable to reliably do	Usually a design flaw in your program
<ul style="list-style-type: none">- Misspelled variable or function names- Missing semicolons- Improperly matching parentheses- Incorrect format in selection and loop statements	<ul style="list-style-type: none">- Using a none initialised variable- Errors in expressions- Array index out of bounds	<ul style="list-style-type: none">- Multiplying when you should have divided- Opening and using data from the wrong file- Displaying the wrong message

Error Handling

Compile Time Errors	Runtime Time Errors
Something that happen when you violate the rules of the languages syntax.	Occurs during the programs execution after successful compilation.
This must be fixed before the code can be compiled.	Can sometimes be hard to find as the compiler doesn't always point to the error.
Common Errors: <ul style="list-style-type: none">- Missing parenthesis- Printing an undeclared value- Missing semicolon	Common Errors: <ul style="list-style-type: none">- Divide by 0

COMPILE TIME ERROR



VS

RUNTIME ERROR

