Errors

Syntax errors

- Grammar errors in programming languages
 - Misspelled variable/function names
 - Missing commas, semi-colons or other punctuations, etc.
 - Improperly matched/missing parentheses, square brackets, curly brackets, etc.
 - Incorrect format in FOR or WHILE loops

Runtime errors:

- Occurs when programme with no syntax errors asks the computer to do something that it can't do:
 - Division by 0
 - Opening a file that doesn't exist

Semantic error:

- Occurs when programme with no syntax error doesn't perform the function of user's intention
 - Invalid algorithm logic
 - Produces incorrect results when executed

Logic errors:

- Design flaws in the programme:
 - O Multiplication when division should be used
 - Opening and using data from the wrong file
 - Displaying wrong messages/warnings