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SE2062 Programming Paradigms
Lab – 09
Scripting Languages
Student ID: IT23632028

1. What are the advantages and disadvantages of the way Perl passes parameters?
 - Pros: Simple - all parameters go into one array `@_`. Flexible - you can pass in any number of arguments. Fast and convenient for smaller scripts.
 - Cons: No type checking. Can be confusing - as all parameters are in one array, Any changes you make to `@_` will affect the original variables unless you recombine copies.
2. What are the differences between my and local variables in Perl?
 - `my` → generates a lexical variable (accessible solely within the current block or function).
 - `local` → temporarily saves and alters a global variable's value, and restores it once the block concludes.
3. What will be printed by the following Perl script?
 - 5,10,11,6
4. Perl tends to be a divisive topic; some people love it and what it is capable of. Others strongly dislike it. Why would this be?
 - Individuals enjoy it because it is very potent, adaptable, and they believe it is excellent for text processing.
 - Individuals dislike it because they think it can be difficult to read, messy, and that code can become confusing rapidly.
5. What is 'Duck typing'?
 - The type of an object is defined by the behavior (the methods it implements) rather than by its class. Applies to languages like Ruby and Python.
6. Ruby is used in several places, including for web development. In fact, Twitter was implemented in part with Ruby (although parts have since been rewritten in Scala). What about Ruby makes it suitable for these purposes? In what circumstances might it not be suitable?