Standard modules

These are several thousand standard Perl modules available via **use** keyword. The module name is prefixed with `::`
Examples:

- `use DB_File;` - functions for maintaining an external hash
- `use Getopt::Std;` - functions for processing command-line flags
- `use File::Find;` - find function like the shell's find
- `use Math::BigInt;` - unlimited-precision arithmetic

Defining A Module - Example

```
use base 'Exporter';
our @EXPORT = qw/min max/;
use List::Util qw/reduce/;

sub sum {
return reduce {$a + $b} @_;
}

sub min {
return reduce {$a < $b ? $a : $b} @_;
}
# must return true to indicate loading succceeded
1;
```

Using A Module - Example

```
use Example_Module qw/max/;

# As max is in our import list
# it can be used without module name
print max(42,3,5), "\n";

# We don't import min explicitly
# so it needs the module name
print Example_Module::min(42,3,5), "\n";
```

The directory containing `Example_Module.pm` must be in listed environment variable **PERL5LIB**

PERL5LIB is colon separated list of directory equivalent to Shell **PATH**

Pragmas

Perl provides a way of controlling some aspects of the interpreter's behaviour (through *pragmas*) also introduced by the *use* keyword.

- `use English;` - allow names for built-in vars, e.g., `$NF` = `$.` and `$ARG` = `$_`.
- `use integer;` - truncate all arithmetic operations to integer, effective to the end of the enclosing block.
- `use strict 'vars';` - insist on all variables declared using `my`.

CPAN

Comprehensive Perl Archive Network (CPAN) is an archive of 150,000+ Perl modules.
Hundreds of mirrors, including
http://mirror.cse.unsw.edu.au/pub/CPAN/
Command line tools to quickly install modules from CPAN.