

Software Construction

[Example Module.pm](#)

```
package Example_Module;
# written by andrewt@cse.unsw.edu.au for COMP2041
#
# Definition of a simple Perl module.
#
# List::Util provides the functions below and more

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

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

sub min {
    return reduce {$_$a < $_$b ? $_$a : $_$b} @_;
}

sub max {
    return reduce {$_$a > $_$b ? $_$a : $_$b} @_;
}

sub minstr {
    return reduce {$_$a lt $_$b ? $_$a : $_$b} @_;
}

sub maxstr {
    return reduce {$_$a gt $_$b ? $_$a : $_$b} @_;
}

# necessary
1;
```

[module example.pl](#)

Use of a simple Perl module.

The directory containing Example Module.pm should be in environment variable PERL5LIB
PERL5LIB is colon separated list of directory to search similar to PATH

```
use Example_Module qw/max/;

# As max is specified in our import list it can be used without the 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";
```

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For all enquiries, please email the class account at cs2041@cse.unsw.edu.au

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