

```
luisestevez@Luiss-MacBook-Air Assignments % swipl
Welcome to SWI-Prolog (threaded, 64 bits, version 8.3.6)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free
software.
Please run ?- license. for legal details.
```

```
For online help and background, visit https://www.swi-prolog.org
For built-in help, use ?- help(Topic). or ?- apropos(Word).
```

```
?- module(demo).
Warning: demo is not a current module (created)
true.
```

```
demo: ?- consult('shapes_world.pro').
true.
```

```
*-LIST PART OF KNOWLEDGE BASE PERTAINING TO rectangles RELATION.
```

```
demo: ?- listing(rectangles).
```

```
rectangles :-
    rectangle(N, _, _, _),
    write(N),
    nl,
    fail.
rectangles.
```

```
true.
```

```
*-LIST NAMES OF ALL RECTANGLES.
```

```
demo: ?- rectangles.
```

```
penelope
maya
tobi
```

```
true.
```

```
*-LIST PART OF KNOWLEDGE BASE PERTAINING TO ellipses RELATION.
```

```
demo: ?- listing(ellipses).
```

```
ellipses :-
    ellipse(N, _, _, _),
    write(N),
    nl,
    fail.
ellipses.
```

```
true.
```

*\*-LIST NAMES OF ALL ELLIPSES.*

demo: ?- ellipses.

steve

ron

mike

**true.**

*\*-LIST PART OF KNOWLEDGE BASE PERTAINING TO shapes RELATION.*

demo: ?- listing(shapes).

shapes :-

    rectangles,

    ellipses.

**true.**

*\*-LIST NAMES OF ALL SHAPES.*

demo: ?- shapes.

penelope

maya

tobi

steve

ron

mike

**true.**

*\*-FIND A RED SHAPE.*

demo: ?- red(ShapeName).

ShapeName = steve ;

ShapeName = maya.

*\*-FIND A GREEN SHAPE.*

demo: ?- green(ShapeName).

ShapeName = ron ;

ShapeName = tobi.

*\*-LIST THE NAMES OF ALL LARGE SHAPES.*

demo: ?- large(ShapeName), write(ShapeName), nl, fail.

maya

**false.**

*\*-LIST THE NAMES OF ALL SMALL SHAPES.*

demo: ?- small(ShapeName), write(ShapeName), nl, fail.

steve

ron

mike

penelope

tobi  
**false.**

*\*-WHAT IS SHAPE ron'S AREA?*  
demo: ?- area(ron, A).  
A = 43.96 .

*\*-WHAT IS SHAPE maya'S AREA?*  
demo: ?- area(maya, A).  
A = 160 .

*\*-TERMINATE PROGRAM.*  
demo: ?- halt.