

CS_191 Functional Programming I

Programming Laboratory 5

The functions `filter`, `dropWhile`, `map`

In this Programming Laboratory session at least two of the four exercises must be solved. As always, you may work in pairs.

When your solutions are complete, please show them to a lab supervisor for assessment. You are expected to be able to explain your solutions and run the functions you defined with some test data.

Exercise 1 Write a function that removes all spaces from a string.

Exercise 2 Write a function that removes all leading spaces from a string.

We model a shopping basket by a list of pairs of items (strings) and prices (floating point numbers).

```
type Item = String
type Price = String
type Basket = [(Item,Price)]
```

Exercise 3 Write a function that computes the total value of a shopping basket.

Exercise 4 Write a function that removes all items from a shopping basket that cost more than a given price.

You may download the file `fp1-lab110321.hs` from the course web page. It contains the type definitions above and an example of a shopping basket which you may use for testing.