Exercise 5c - Reading file

Beskrivning

We shall no go through the possibility to read from a file using fstream in C++.

We have the possibility to choose between the "ifstream" and "fstream". The best choice is to use the "ifstream" since it is designed for input data to a file.

To read a file we first need to include the fstream include file

```
#include <iostream>
```

Then we need to declare and open a file

```
std::ifstream myfile;          //uses ifstream (read only)
myfile.open ("example.txt");       //open stream
```

The easiest way to read data from the file is to use the created file *myfile*, in the same way as we use *cout* for printing to console but change direction to ">>"

```
std::string my_string;
myfile >> my_string;      //read from stream
```

Below example will read until a spece appear in tie file. If you want to read the complete line you need to use getline instead.

```
std::getline(myfile,my_string);
```

Exercise 5c

- Create a program that reads a line of data from the file created in Exercise 5b

- Modify the example.txt file in notepad and add more than one word on the same line but with a space between like "Tesla is a car"

- Change the read to use ">>" on the stream to a string as described above. You should notice that only the word Tesla will be read.