**Exercise: Hospital Bed – part 1 (Thread synchronization)**

In these exercises, you will work with C# threads and thread synchronization.

For more than a century, BedCo has been producing and selling beds for hospitals and nursing homes around the world. As such, it is an old company with very high quality standards, a good reputation and happy employees.

But for the past years business has been declining…

Some of BedCo´s customers have begun to buy cheaper beds from BedCo´s competitors. The cheaper beds are of a lower quality, but with the ‘new public management’ philosophy, money rules everything.

Anna, the CEO of BedCo, is in a dilemma. She has taken over the CEO position from her father, who in turn took over from his father. Anna does not want to compromise on the quality of BedCo´s beds, but she knows, that if she stays on the current course, the company she has known for all her life will end in bankruptcy.

Anna knows that she will never produce beds as cheap as her cheapest competitors will. But she also knows, that the price of a product does not equal the value of a product. If BedCo’s beds can provide more value that beds from other companies, her customers will be likely to pay the higher price.

To find out, how her beds can provide more value for her customers, Anna hires a user experience specialists, Niels. Niels is trained in observing and analyzing workflows and routines. Anna uses some of her connections at a local hospital and a local nursing home, to let Niels observe how nurses and patients use BedCo’s beds. Niels will be at the hospital for a week and then at the nursing home for a week.

**Exercise 1:**

Create a console application.