Exercise 2

1. Manufacture system designed to extend the capacity of machines is called **automation**
2. Automated manufacture arose out of division of **labor, power transfer and the mechanization** of the factory
3. The division of labor is, the reduction of a manufacturing or service process into its smallest **independent steps**
4. Another step necessary in the development of automation was **mechanization**
5. As a result of the development of power transfer specialized machines were **motorized** and their production efficiency was improved
6. The development of **power** technology also gave rise to the factory system of production
7. The transfer machine is a device used to move a **work piece** from one specialized machine tool to another
8. Industrial robots were originally designed only to perform **simple** tasks
9. The goal of the **assembly-line** system was to make automobiles available to people who previously could not afford them

Exercise 3

1. Automation is a system of manufacture designed to reduce the capacity of machines to perform certain tasks formerly done by humans. - **True**
2. In the fields of communications, aviation, and astronautics automation is used in a very limited scale. - **False**
3. Automated control systems are used to perform various operations much faster or better than could be done by humans. - **True**
4. Power transfer and the mechanization of the factory were the main obstacles in the development of automation. - **False**
5. The division of labor developed in the first half of the 19th century and was first discussed by the French economist Adam Smith. - **False**
6. Mechanization was the next step necessary in the development of automation. - **True**
7. The development of power technology gave rise to the factory system of production. - **True**
8. The transfer machine is a device used to move workers from one place to another. - **False**
9. In the 1920s the auto industry combined automation concepts into an integrated system of production. - **True**
10. The goal of the assembly-line system in auto industry was to make automobiles more expensive and luxurious. - **False**