**Task 1:**

**Exercises**

* 1010 + 1101 =10111
* 1011 + 111 =10010
* 1111 – 1010 =0101
* 1110 – 101 =1001
* 1101 × 101 =1000001

**Homework!**

1. **Transfer the following byte into Decimal Value:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |

The number is in decimal=202.

**2.Transfer the following Decimal value into Binary:**

**(511)**

111111111

**3.List 3 Internal Components and 3 External Components.**

**Internal Components**

**CPU**

**RAM**

**Hard Disk**

**Motherboard**

**External Components**

**Mouse**

**Speaker**

**Keyboard**

**Monitor**

**4.What is the main function of the (CPU) and the (RAM)?**

CPU is the brain of a computer, is constantly following instructions of computer programs that tell it which data to process and how to process it.

RAM is used to store information that needs to be used quickly.

**5.What can 1 Byte store?**

A byte can store a numerical value between 0 and 255

One byte = collection of 8 bits.

**6.What is the Max decimal number that can be stored in 1 Byte?**

The maximum decimal number that can be represented with 1 byte is 255 or 11111111.

**7.In Binary, What is the result of  1001 \* 1011 =?**

**1100011 (99)**

**8.What is the equivalent of (3 Terabytes) in Bytes?**

**1 Terabytes=1099511627776(B).**

**3 Terabytes=3\*1099511627776=3298534883328(B).**