

## Task 1: Exercises

- $1010 + 1101 = 10111$
- $1011 + 111 = 10010$
- $1111 - 1010 = 0101$
- $1110 - 101 = 1001$
- $1101 \times 101 = 1000001$

## 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)

11111111

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.

## **Hadeel Abed Abo Safiya**

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).**