Latihan 2.1

1. Konversi decimal ke biner

* 57 / 2 = 28 sisa 1

28 / 2 = 14 sisa 0

14 / 2 = 7 sisa 0

7 / 2 = 3 sisa 1

3 / 2 = 1 sisa

**Jadi 57(10) = 11001(2)**

* 881 / 2 = 440 sisa 1

440 / 2 = 220 sisa 0

220 / 2 = 110 sisa 0

110 /2 = 55 sisa 0

55 / 2 = 27 sisa 1

27 / 2 = 13 sisa 1

13 / 2 = 6 sisa 1

6 / 2 = 3 sisa 0

3 / 2 = 1 sisa 1

**Jadi 881(10) = 101110001(2)**

* 9752 / 2 = 4876 sisa 0

4876 / 2 = 2438 sisa 0

2438 / 2 = 1219 sisa 0

1219 / 2 = 609 sisa 1

609 / 2 = 304 sisa 1

304 / 2 = 152 sisa 0

152 / 2 = 76 sisa 0

76 / 2 = 38 sisa 0

38 / 2 = 19 sisa 0

19 / 2 = 9 sisa 1

9 / 2 = 4 sisa 1

4 / 2 = 2 sisa 0

2 / 2 = 1 sisa 0

**Jadi 9753(10) = 001100001100(2)**

1. Konversi Decimal ke octal

* 59 / 8 = 8 sisa 3

8 / 8 = 1 sisa 0

**Jadi 59(10) = 03(8)**

* 757 / 8 = 94 sisa 5

94 / 8 = 11 sisa 6

11 / 8 = 1 sisa 3

**Jadi 757(10) = 365(8)**

1. Kapasitas tipe-tipe data dalam memori

* Byte = 1 byte (8 bits)
* Long = 4 byte (64 bits)
* Shot = 1 byte (16 bits)
* Int = 2 byte (32 bits)

1. Sudah
2. Salah dan benar

long var1 = 0\_100\_267\_760; (benar)

long var2 = 0\_x\_4\_13; (salah)

long var3 = 0b\_x10\_BA\_75;(salah)

long var4 = 0b\_10000\_10\_11; salah)

long var5 = 0xa10\_AG\_75;(benar)

long var6 = 0x1\_0000\_10;(benar)

long var7 = 100\_\_12\_12;(benar)