**TUGAS PENGANTAR TEKONOLOGI INFORMASI**

**PERTEMUAN 5**

**IR AGUS SUHARTO M.KOM**



Dibuat Oleh:

**ARIF FRIMA ARI SUWADJI**

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**01SIFE003**

**Tugas / Latihan:**

1. Rubah bilangan berikut:
   * + 1. 45010 = 16
       2. 45010 = 2
       3. 45010 = 8
2. Rubah bilangan berikut:
   * + 1. 45016 = 8
       2. 45016 = 2
       3. 45016 = 10
3. Hitunglah operasi aritmatika dari bilangan berikut:
   * + 1. 110112
       2. 111112

* a + b =
* b – a =
* a \* b =
* a / b =

1. Hitunglah operasi aritmatika dari bilangan berikut:
   * + 1. 508
       2. 108
   * a + b =
   * a – b =
   * a \* b =
   * a / b =

**Jawaban**

* + - 1. 45010 = 1C216

450 : 16 = 28

28 : 16 = 1

1,758 : 16 = 0

|  |  |  |
| --- | --- | --- |
| Bagi | Hasil | Sisa |
| 450 : 16 | 28 | 2 |
| 28 : 16 | 1 | 12 |
| 1 : 16 | 0 | 1 |

* + - 1. 45010 = 1110000102

|  |  |  |
| --- | --- | --- |
| Bagi | Hasil | sisa |
| 450 : 2 | 225 | 0 |
| 225 : 2 | 112 | 1 |
| 112 :2 | 56 | 0 |
| 56 : 2 | 28 | 0 |
| 28 : 2 | 14 | 0 |
| 14 : 2 | 7 | 0 |
| 7 : 2 | 3 | 1 |
| 3: 2 | 1 | 1 |
| 1 : 2 | 0 | 1 |

* + - 1. 45010 = 7028

|  |  |  |
| --- | --- | --- |
| Bagi | Hasil | Sisa |
| (450)/8 | 56 | 2 |
| (56)/8 | 7 | 0 |
| (7)/8 | 0 | 7 |

1. Sistem
   * + 1. 45016 = 21208

Convert ke 4 biner, lalu convert ke 3 biner kemudian convert ke oktal

45016 = 4 5 0

45016 = 100 0101 0000

45016 = 010 001 010 000

45016 = 21208

* + - 1. 45016 = 0100010100002

Convert ke 4 digit

45016 = 4 5 0

45016 = 0100 0101 0000

45016 = 010001010000

* + - 1. 45016 = 110410

450₁₆ = (4 × 16²) + (5 × 16¹) + (0 × 16⁰) = 1104₁₀

1. Operasi aritmatika
   * + 1. 110112
       2. 111112
   * a + b = 1110102
   * b – a = 1002
   * a \* b = 11010001012
   * a / b = 0.112
2. Operasi aritmatika
   * + 1. 508
       2. 108
   * a + b = 608
   * a – b = 408
   * a \* b = 5008
   * a / b = 58