**TUGAS PERKALIAN BILANGAN BINER**

1. 12 x 10 = 120

1100 x 1010 = 0111 1000

M = 1100

|  |  |  |  |
| --- | --- | --- | --- |
| **C** | **A** | **Q** |  |
| 0 | 0000 | 1010 |  |
|  | N=4 | Q = 0 |  |
| 0 | 1100 | 1010 |  |
| 0 | 0110 | 0101 |  |
|  | N=3 | Q0 = 1 | 0110  1100 |
| 1 | 0010 | 0101 | 1 0010 |
| 0 | 1001 | 0010 |  |
|  | N=2 | Q0=0 |  |
| 0 | 0110 | 0010 |  |
| 0 | 0011 | 0001 |  |
|  | N = 1 | Q0 = 1 | 0011  1100 |
| 0 | 1111 | 0001 | 1111 |
| 0 | 0111 | 1000 |  |
|  |  |  |  |
|  |  |  |  |

1. (-12)x10 = -120

M = 1010

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C | A | Q | Q-1 |  |
| 4 | 0000 | 0100 | 0 |  |
| 3 | 0000 | 0010 | 0 |  |
| 2 | 0000 | 0001 | 0 |  |
| A = A - M | | | | 0000  0110 |
| 2 | 0110 | 0001 | 0 | 0110 |
| 1 | 0011 | 0000 | 1 |  |
| A = A + M | | | | 0011  1010 |
| 1 | 1101 | 0000 | 1 | 1101 |
| 0 | 1110 | 1000 | 0 |  |
|  | 2 COMPLEMET |  |  |  |