**Ahmad Faisal**

**L200160117/C**

# Lakukan operasi perkalian secara biner (4 bit) antara

# -12 x 10 = 0100 x 1010.

# A *Q*0 *Q*1 M Count

0000 0100 0 1010 4

0000 0010 0 1010 4

0000 0010 0 1010 3

A = A + (-M) = 0000 + (-1010)

= 0000 + 0110 = 0110

0110 0001 0 1010 3

0011 0000 1 1010 2

A = A + M = 0011 +1010 = 1101

1101 0000 1 1010 2

1110 1000 0 1010 1

1111 0100 0 1010 1

1111 1010 0 1010 1

**1111 1101** 0 1010 0

Hasil = 1111 1101

1. 12 x -10 = 1100 x 0110

A Q0 Q1 M Count

0000 1100 0 0110 4

0000 0110 0 0110 4

0000 0011 0 0110 3

A = A + (-M) = 0000 + (-0110)

= 0000 + 1010 = 1010

1010 0011 0 0110 3

1101 0001 1 0110 2

1110 1000 1 0110 1

A = A + M = 1110 + 0110 = 10100

0100 1000 1 0110 1

**0010 0100** 0 0110 0

Hasil = 0010 0100

1. -12 x -10 = 0100 x 0110

A Q0 Q1 M Count

0000 0100 0 0110 4

0000 0010 0 0110 4

0000 0001 0 0110 3

A = A + (-M) = 0000 + (-0110)

= 0000 + 1010 = 1010

1010 0001 0 0110 3

1101 0000 1 0110 2

A = A + M = 1101 + 0110 = 10011

0011 0000 1 0110 2

0001 1000 0 0110 1

0000 1100 0 0110 1

0000 0110 0 0110 1

**0000 0011** 0 0110 0

Hasil = 0000 0011