# Tutorial Exercises

## Exercise 1

1. What will be the value of BX after the following instructions are carried out?

mov bx,029D6h

xor bx,8181h

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xor | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 |

Bx = A857h

1. What will be the value of EBX after the following instructions are carried out?

mov ebx,0AFAF649Bh

or ebx,3A219604h

EBX = BFAFF69Fh

1. In the following instruction sequence, show the resulting value of AL where indicated, in binary:

mov al, 01101111b

and al, 00101101b ; a. al = 00101101b

mov al, 6Dh

and al, 4Ah ; b. al = 48h

mov al, 00001111b

or al, 61h ; c. al = 01101111b = 6Fh

mov al, 94h

xor al, 37h ; d. al = A3h