Addition or Subtraction

# **add 80, 37**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Second Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Result | Bit **7** | Bit **6** | Bit **5** | Bit **4** | Bit **3** | Bit **2** | Bit **1** | Bit **0** |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Control Status Register | **I** | **T** | **H** | **S** | **V** | **N** | **Z** | **C** |
|  |  |  |  |  |  |  |  |
| Alterations |  |  |  |  |  |  |  |  |
| Reason for alterations |  |  |  |  |  |  |  |  |

# **Sub 80, 37**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Second Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Result | Bit **7** | Bit **6** | Bit **5** | Bit **4** | Bit **3** | Bit **2** | Bit **1** | Bit **0** |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Control Status Register | **I** | **T** | **H** | **S** | **V** | **N** | **Z** | **C** |
|  |  |  |  |  |  |  |  |
| Alterations |  |  |  |  |  |  |  |  |
| Reason for alterations |  |  |  |  |  |  |  |  |

# **add 80, -37**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Second Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Result | Bit **7** | Bit **6** | Bit **5** | Bit **4** | Bit **3** | Bit **2** | Bit **1** | Bit **0** |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Control Status Register | **I** | **T** | **H** | **S** | **V** | **N** | **Z** | **C** |
|  |  |  |  |  |  |  |  |
| Alterations |  |  |  |  |  |  |  |  |
| Reason for alterations |  |  |  |  |  |  |  |  |

# **add -80, 37**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| First Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Second Operand | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Result | Bit **7** | Bit **6** | Bit **5** | Bit **4** | Bit **3** | Bit **2** | Bit **1** | Bit **0** |
|  |  |  |  |  |  |  |  |
| Hexa-Decimal Value |  | | | **Decimal Value** |  | | | |
| Control Status Register | **I** | **T** | **H** | **S** | **V** | **N** | **Z** | **C** |
|  |  |  |  |  |  |  |  |
| Alterations |  |  |  |  |  |  |  |  |
| Reason for alterations |  |  |  |  |  |  |  |  |