```
+execute operacion matematica()(operacion:(Int, Int) => Int,op1: W16,op2:W16): Map[String, Any]
+takeFlags(valor:Int): (Int, Int)
+takeFlagsSum(resultado binario:W16,op1:W16,op2:W16): (Int,Int)
+takeFlagsRest(resultado binario:W16,op1:W16,op2:resultado binario): (Int,Int)
+execute add(op1:W16,op2:W16): Map[String, Any]
+execute sub(op1:W16,op2:W16): Map[String, Any]
+execute mul(op1:W16,op2:W16): Map[String, Any]
+execute div(op1:W16,op2:W16): Map[String,Any]
+execute cmp(op1:W16,op2:W16): Map[String, Any]
+execute operacion mul(operacion:(Int, Int) => Int,op1:W16,op2:W16): Map[String, Any]
+actualizarNegative(resultado:Int): Int
+actualizarZero(resultado:Int): Int
+actualizarCarryBorrow(resultado binario:W16): Int
+obtenerBitsParaAnalizarOverflow(resultado binario:W16,op1:W16,op2:W16): (Int,Int,Int)
+verificarCondicionOverflowSuma(resultado binario:W16,op1:W16,op2:W16): Int
+verificarCondicionOverflowResta(resultado binario:W16,op1:W16,op2:W16): Int
+aplicarOperacionBooleana(op1:W16,op2:W16,operacion:(Int, Int) => Int): W16
+actualizarFlagsOperacionesLogicas(resultado:W16): Map[String, Any]
+AND(op1:W16,op2:W16): Map[String, Any]
+XOR(op1:W16,op2:W16): Map[String, Any]
+OR(op1:W16,op2:W16): Map[String, Any]
+NOT(op:W16): W16
+AND(un bit:Int,otro bit:Int): Int
+OR(un bit:Int,otro bit:Int): Int
+XOR(un bit:Int,otro bit:Int): Int
+NOT(un bit:Int): Int
|+interpretarBit(un bit:Int): Boolean
```

ALU