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//
// Ezekiel Kim
// Lab 9
// Program to change number from big to little endian
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// /2023
//
        .global _start // Provide program starting address

        .data

        .text

_start:
        ldr     x0,     =0x123456789ABCDEF0      // Initialize Number

        // Get first byte
        mov     x2,     x0
        lsl     x2,     x2,     #56
        add     x1,     x1,     x2

        // Get second byte
        mov     x2,     x0
        lsr     x2,     x2,     #8
        lsl     x2,     x2,     #56
        lsr     x2,     x2,     #8
        add     x1,     x1,     x2

        // Get third byte
        mov     x2,     x0
        lsr     x2,     x2,     #16
        lsl     x2,     x2,     #56
        lsr     x2,     x2,     #16
        add     x1,     x1,     x2

        // Get fourth byte
        mov     x2,     x0
        lsr     x2,     x2,     #24
        lsl     x2,     x2,     #56
        lsr     x2,     x2,     #24
        add     x1,     x1,     x2

        // Get fifth byte
        mov     x2,     x0
        lsr     x2,     x2,     #32
        lsl     x2,     x2,     #56
        lsr     x2,     x2,     #32
        add     x1,     x1,     x2

        // Get 6th byte
        mov     x2,     x0
        lsr     x2,     x2,     #40
        lsl     x2,     x2,     #56
        lsr     x2,     x2,     #40
        add     x1,     x1,     x2

        // Get 7th byte
        mov     x2,     x0
        lsr     x2,     x2,     #48
        lsl     x2,     x2,     #56
        lsr     x2,     x2,     #48
        add     x1,     x1,     x2

        // Get 8th byte
        mov     x2,     x0
        lsr     x2,     x2,     #56
        lsl     x2,     x2,     #56
        lsr     x2,     x2,     #56
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        add     x1,     x1,     x2


// Setup the parameters to exit the program and then call Linux to do it.
        mov     x0,     #0      // Sets return code to 0
        mov     x8,     #93     // Service command code 93 terminates
        svc     0       // Call linux to terminate the program
        .end
```