**Requirements**

**Write a program in assembly language which computes one of the following arithmetic expressions, considering the following domains for the variables (in the unsigned and signed representation).**

**1. a – byte, b – word, c – double-word, d – quad-word, unsigned representation. Expression: (a + d + d) – c + (b + b)**

**2. a – byte, b – word, c – double-word, d – quad-word, unsigned representation. Expression: (a + b + c) - (d + d) + (b + c)**

**3. a – byte, b – word, c – double-word, d – quad-word, signed representation. Expression: b + c + d + a - (d + c)**

**4. a – byte, b – word, c – double-word, d – quad-word, signed representation. Expression: (a + b - c) + (a + b + d) - (a + b)**

**5. a, c – byte, b – word, d – double-word, x – quad-word, unsigned representation. Expression: d - (7 – a \* b + c) / a – 6 + x / 2**

**6. a – word, b – byte, c – double-word, x – quad- word, signed representation. Expression: (a \* a + b + x) / (b + b) + c \* c**