**1. Show how the next variables are represented in memory:**

a db -29

b dd -29

c dw 45

d dw 45h

e dd 1a2b3ch

f dq 1122334455h

g db ’AbtT’

h db ’a+b’, ’c\*2’

**2. Write the code to compute:**

a-unsigned:

(X + 12345h) / (Y / T) – (1010b \* X) + Z X word, Y quadword, T byte, Z doubleword

b – signed:

–A / (123h – 10101b) + B \* C A word, B byte, C doubleword

**3. Write the code to compute:**

a. A string of S of quadwords (hexadecimal signed numbers) is given. Extract all bytes from the S in D.

b. A string of words (unsign decimal numbers is given). Find the maximum value from the string

c. A string of doublewords is given. Compute the sum of all high bytes from high words from the string.

d. A string of quadwords is given. Save in D (string of quadwords) only the quadwords from S with an odd number of set bits (bits with value 1 in binary).

Eg: 