# ПРАКТИЧНІ ЗАВДАНHЯ

1. Арифметичні операції:
2. (X + Y) + (Y - Z) - (X - Y) = Q ;X = 20h, Y = 05h, Z= 04h;
3. (X + Y + Z) - (Y - Z) + X = Q ;X = 03h, Y = 10h, Z = 04h;
4. (Y + Z) + X - (Y - X) + Z = Q ;X = 04h, Y = 35h, Z = 08h;
5. ((X + Y) - Z - (Z - Y)) - X= Q ;X = 15h, Y = 35h, Z = 04h;
6. X + (Y + X) + (Z - Y) + Z = Q ;X = 26h, Y = 06h, Z = 09h;
7. X – (Y + Z) – ( Z – Y) – X = Q ;X = 48h, Y = 05h, Z = 09h;
8. (X + Z – Y) + X – Y + Z = Q ;Х = 53h, Y = 34h, Z=05h

II. Логічні операції:

1. Q = !A⋅B⋅!C + (!B⋅C⋅D ⊕ A⋅C) , де A=50h, B=01h, C=33h, D=E2h.
2. Q = 0xA⋅A + (!B⋅!C+B ⊕ D⋅!C⋅!B) , де A=17h, B=B0h, C=11h, D=E0h.
3. Q = !(A⋅!B⋅C) + D⋅!C⋅B ⊕ !(A⋅C⋅D) , де A=BFh, B=hh, C=35h, D=31h.
4. Q = (!(A + B + C + D))⋅(B⋅!C⋅D ⊕ 0x17) , де A=14h, B=3Fh, C=1Dh, D=03h.
5. Q = (0x34 + !A⋅B⋅C ⊕ D)⋅!(A⋅!D⋅C), де A=44h, B=12h, C=13h, D=C1h.
6. Q = (A + B)(!C ⊕ D + A⋅B + C⋅D) , де A=93h, B=13h, C=7Eh, D=B3h.

Q = (AC + BD ⊕ 0x13)⋅!((A ⊕ B)) , де A=55h, B=30h, C=21h, D=E0h