**Ex. 1 b10 -> b16**

347: 16 = 21 r. 11 - Satmari Sandra

21:16= 1 r. 5

1:16= 0 r.1

347 = 15B h

**Ex. 2 b16/b2 -> b10**

3A8h = 8 \* 16^0 + 10 \*16^1 + 3 \* 16^2 = 936 –Pirlog Simon

1101101b = 1\*2^0 + 0 \* 2^1 + 1\*2^2 + 1 \* 2^3 + 0\*2^4 + 1\*2^5 + 1\* 2^6 = 109

++

0**01**1 +

1

0100

**Ex. 3 b16 <-> b2**

0010 1010 b = 2A h

1B5 h = 0001 1011 0101 b - Popescu Dragos

**Ex. 4 Zweierkomplement**

**18 d = 00010010 b**

**Met 1.**

**100000000-**

**00010010 =**

**11101110 b**

**Met 2.**

**00010010 -> inversam 11101101b + 1b = 11101110b**

**Met 3.**

**00010010 b**

**11101110 b**

**10000 -> inversez 01111 +1 = 10**

**000**

**Met 4.**

**18 : 16 = 1 r2**

**1 : 16 = 0 r1**

**18 = 12 h**

**100 h -**

**12 h**

**EE h**

**10h = 16**

**10h – 2h = Fh+ 1h – 2h = F – 1 = E**

**10h – 1h – 1h = F +1 – 1 – 1 = F – 1 = E**

**1000 0000**

**Reprez cu semn: sign bit = 1 => negativ : - 2^7**

**Zweierkomplement: 1000 0000 = 2^7**

**Ex. 5**

**10 = 00001010b - Visan Tudor**

**- 10 = 11110110b**

**1 = 00000001 - Tulici Francisc**

**- 1 = 11111111b = FFh**

**49A02h = 0100 1001 1010 0000 0010b Razvan Postescu**

**0001 0010 1110 b = 12Eh Tarta Paul**