## Tema - seminar 1

1. Exemple din literatura unde este descrisa oristale/decriptare:
. "Brima din Rue Morgue" - Edgar Allan Por

tubrie descriptot pertre a gain o composià.

. Bodul lui Da Vinci" - Dan Brown. Lapar diverse tehnici de criptare

2. cmm de al monatoarelor numero sorie de baza : (101000 110101)(2); (10000 1111011)

101000 110 10 (2)= 1.2°+ 1.2°+ 1.2°+ 1.2°+ 1.2°+ 1.2°+ 1.2°

= 1 + 4 + 16 + 32 + 512 + 2048

= 1+20+25 60+32

= 53 +2560

= 2613 (10)

10999 1111011 (2) = 1.20+ 1.21+ 1.23+ 1.24+ 1.25+1.26+1.21

=1+2+8+16+32+64+2048

= 1+10+48+64+2048

=11+112+2048

= 11+2160

= 2171 (10)

2141= 13.167

2613= 3.13.67

=) chumde (2613, 2171) = 13

13(10) = 1101(2)

is the state of the state of the state of

5. Jehin Bari de baze:

$$4.a) \frac{100}{543} \frac{100}{210} \frac{100}{(2)} = 1.2^{0} + 1.2^{2} + 1.2^{5}$$

$$= 1 + 4 + 32$$

$$= 37(10)$$

$$c) 221(3) = 1.8^{2} + 2.8^{1} + 2.8^{2}$$

$$= 14 + 16 + 2.64$$

$$= 14 + 128$$

$$= 145 (10)$$

6. Expansione modularà:

$$4.6^{28} \pmod{29} = (6^2)^{14} = 4^{14} = (4^2)^{\frac{1}{2}} = 20 = 20 \cdot 20 = 20 \cdot (20)^{\frac{1}{2}}$$

$$= 20 \cdot 23^{\frac{3}{2}} = 20 \cdot 23^{\frac{1}{2}} \cdot 23^{\frac{1}{2}} \cdot 33^{\frac{1}{2}} \cdot 33^$$

3. numan de le life an bara b:

10 (1112 - 10 ) showing (F.