Birou hores Group: 311

## Subject 3 - Student 1

· x = 84230, 12

· SP = 32 bits, mantissa >1

5P - single precision =>m= 32 lits -e on 8 lub

> -9=127 -mon 23 los

- used to represent very large and very small munless with a high presion - if there is an overflow, then the least significant digests are lost.

· Conversion of the integer part: successive divisions by o

 $\frac{842308}{10528}$ th 8:8=1, \(\text{10}\)
th 4:8=0, \(\text{14}\)
th 42:8=5, \(\text{12}\)
th 23:8=2, \(\text{14}\)
th 3:8=2, \(\text{14}\)
th 3:8

1H1 20:8=2,14

#1 1:8=0, 12.

Now we take take remainders from the last one =) 872 30(10) = 2 4 440 995

Futhermore me will me repud combiners.

To me hove 0,12 = 0,075/0,000 111101(2) (hopid conversion)

From the number above we will only take 7 digests from fractional

front, as new hore 16 litts in total part, no 23-16=7

$$X = 94230,11_{(10)} = 10100100100000110,0001111(2)$$
  
 $X = 1,01001001000001100000111(2) * 2$ 

mantissa
helden bit

• 
$$C = l + 127$$
  
=  $16+127$   
=  $143$   
=  $143$   
=  $143$