NIM: 20/01/402/25

1. carilah bilangan biner dari bilangan decimal beriutt!

39:2 = 19 sisa 1 a. 3910= 19: 2 = 9 sisa 1 9:2= 451501 4: 2 = 2 5 150 0 2:2= 1 5150 D

39= 100111

6.50,0= So:2=25 51500 25:2=12 5159 1 12:2= 6 5150 0 6: 2= 3 sisa 0 3:2= 1 5i59 1

50, = 110010,

79:2= 39 sisa1 C. 7910= 39:2= 19 sisal 19:2= 9 51591 9:2= 4 51591 4:2= 2 51590 2:2= 1 Sisa 0

79,0 = 100/11/2

d. 100,0 = 100:2=50sisa 0 50:2=255isa 0 25:2 = 12 sisa 1 12:2= 6 5isa 0 6:2= 3 sisa 0 3:2= 1 5isA 1

100,0 = 11001002

$$C = (+), 1$$

$$|10|1 0|00$$

$$C = 0|0| 1|10+$$

$$|000|00|0$$

$$e = A + D$$
 1100×0011
 $e = 0101 \times 1110 \times 1001 \times 1001$

ă	G	١						
8	18	a	8	8	в	в	8	8
ő	'n	١	ì	é	š			

3. Carilah Komplemen 2 dari data biner berikut!

* a=0000 ioll

tahap i mengubah biner menjadi nomplemen 1

tahaf 1 mengulah biner menjasi wamiremen 1
0000 |011 = 1111 0100

tahaf 2 mengulah wamfemen 1 menjasi wamfemen 2

i111 0100 = 1111 01012

9= 1111 01012

*b = 0101 0101 = 1010 1010 b = 1010 10112

C = 0100 010 = 1011 1001 $C = 1011 1010_2$

d = 0011 0011 = 1100 1100 d = 1100 11012

* P = 0011 1000 = 1100 0111 P = 1100 10002

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4. Carilan bilangan biner Jali penjumlahan bilangan decimal 1
* a. 120 + 10 = 10000010
               120:2 = 605isa0
120,0=
               60:2 = 30 5isa 0
                30:2= 15 5160
15:2= 7 51691
                 7: 2=3 sisal
                 3:2 = 1 5isa 1
     120,0 = 1111000=
              10:2=5 sisa0
               5:2= 2 5159 1
               2:2= 1 51500
       10,0=10102
      a= 120,0 + 10,0 = 1111000
                             010+
                        100000102
      a= 1000 0010,
     6. 87+57 = 10010000
                   87:2=43 5isa
         87,0=
                   43:2= 21 51591
                   21:2=10 51501
10:2=5 51900
                    5:2= 2 5159 1
                    2:2= 1 515a0
       87,0 = 10/01/12
```

 $57_{10} = 57:2 = 28$ $57_{10} = 28:2 = 14$ 5150_{10} $14:2 = 75150_{10}$ $7:2 = 35150_{10}$ $3:2 = 15150_{10}$

b = 87,0 +57,0 = 1010111 111001+

6 = 1001 00002

* C = 115 + 125 = 1111 0000

 $115_{10} = 115_{12} = 57_{5152} = 115_{10} = 115_{10} = 57_{5152} = 115_{10} = 111_{10$

 $C = 115_{10} + 125_{10} = \frac{11110011}{11110011}$

C= 1111 00002

0

10

0

10

0

10

A

ORORD

d. 125 + 225 = 1010 11110

125,0 = 11111012

225,0=111000012

J= 125,0+22510 = 11111101 J= 1010 11110

e. 256 + 123 = 10|11|0|1 256,0 = 256:2 = 1285isa0 128:2 = 645iga0 64:2 = 325isa0 32:2 = 165iga0 16:2 = 85isa0 8:2 = 45iga0 4:2 = 25isa02:2 = 15isa0

256 = 10000 00002

123,0= 11110112

P= 1011110112