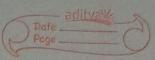


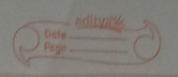
| | | | | 7 | | | |
|----|--------------------------|------------|---------|-----------------|----------|----------|----------|
| | Code for | Decimal | +0 | Bingry | And Via | o-Versa. | 0 |
| | Decimal | Bingry | FL 10 | | | | 7 |
| | 0 | 0 | | Base | Quotient | Rem | - |
| | Basel Anny | | int r | 2 | 13 | | 5 |
| | 2 | 10 | | 2 | 6 | 1 | 9 |
| | 3 | 11 | | 2 | 3 | 0 | = |
| | 4 | 100 | 50 000 | 2 | | 1 | |
| | 5 | 101 | | No. of the last | 0 | 11 | 9 |
| | ` | ive m | un l | Decimal | Bino | ary, | 6 |
| | | mun III | > 4,000 | 13 - | -> 11C |) | e |
| | Total no. o | f unique | digit | ina | number | | - |
| | System is + | snown a be | ase of | I that | - number | | - |
| | Usystem. | remun t | 01 | | | | |
| 13 | Binary | | | | | | <u>e</u> |
| | $0,1 \rightarrow base 2$ | | | | | 6 | |
| | Lead Suff | 4377 | | 5 E | | | - |
| | e.g. | | | - | | | 0 |
| | a = 2, b = 5, c = 8 | | | | | 8 | |
| | | 258 | | | | | 8 |
| | | x10+b | | as realistic | | | 0 |
| | = 2 | 20+5 = | 25 | | | | 8 |
| | | 25×10+8 | | | | | 0 |
| | = 2 | 50+8 = | 258 | | | | 8 |
| | 1.6 | Q | | | | | -8- |
| | | | | | | | 8 |
| | | 0, + 8×10, | | | | | 8 |
| | 200+5 | 0+8=2 | 50, | | | | |



| | Page | | | | | | | |
|----|-----------------------------|--|--|--|--|--|--|--|
| | 10 36 245 K- num | | | | | | | |
| | 3 mm . a 20 s - 3 m | | | | | | | |
| | Ars) 3x10+6 = 36 | | | | | | | |
| | Ans - 36x10+2 = 362 | | | | | | | |
| | 1 362×10+4 = 3624 | | | | | | | |
| | 3624×10+5= 36245 | | | | | | | |
| | INT ANSO; | | | | | | | |
| | (Ans = Ans x10 + num) | | | | | | | |
| | - Current | | | | | | | |
| × | * if a = 6, b = 9, make 96. | | | | | | | |
| | bx10+a | | | | | | | |
| | 965 | | | | | | | |
| | DW. | | | | | | | |
| | 6492 -> 2946 | | | | | | | |
| 10 | num 2x103+ 9x102+4x10+6x10 | | | | | | | |
| - | 6x1+0=> 6 < ANS | | | | | | | |
| 2 | 4×10+6 \$ 46 < ANS | | | | | | | |
| 7 | 9×100+46=)946 < Ans | | | | | | | |
| | 2×1000+946=) 2946-724 | | | | | | | |
| 31 | Ans:0 | | | | | | | |
| | (Ans = numx10i + ans) | | | | | | | |
| | | | | | | | | |
| | Num. | | | | | | | |
| | >> 2 13 Rem Ans=0 | | | | | | | |
| | 6 1 Ans= rem x10 + ans | | | | | | | |
| | 3 D = 1x10+0=1 | | | | | | | |
| | 1 1 = 0x10 + 1 = 01 | | | | | | | |
| | 0 = 1×10 +1 = 101 | | | | | | | |
| | 1101 | | | | | | | |
| | 5 | | | | | | | |
| 1 | | | | | | | | |



int n = 13 int rem, ans=0, mul=1 Ans=0 while (n)0) mulsi (1) gem = 13%2=1 rem = 1% 2; ans= 1x1+0=1 n: 0/2; ans = yem x mul + ans mul = mux 10; my \$ = >D gem= 61.2=0 Cout < < ans . ans= 0x10+1=1 n=3 3>0 111) ans=1 Prue refer code: .. Decimal To Binary CPP mul = 100 Jem: 31.2:1 ans=1x100+ 1=101 n=1 1>0 ans=101 mul = 1000 Jem = 1221 ans=1×1000+101 = 1101 n=0 0>0 Palse 20 calse loop breek Ans (1101



Binary To Deelmal

101 L) 1x02 + 0x00 + 1x000 4 + 0 + 1

1x2 + 1x22+ 0+2'+1x20 8 + 4 + 0 + 1 = 13

ons = rexn x 2' + 9ns rem 1101 10 10 110 1 rem = num%10. 11 0 num = num/10; 10 10 1x2°+0 = @ 1 Dx2'+121

> 1x22+1 = 5 $1 \times 2^3 + 5 = 13$

Dry Run int num = 1101; (i) n= HOI (ii) n= 11 ans = 0, rem, mul = 1. 11>0 1101>0 while (num>0) True True Bem: 11/10=1 Jem = 160/7/10 numai gem = num',10; ans = 1x4+1=5 14m=110 mw= 8 num: num/10; ans= 1x1+D mu1= 2 ans = remx mul x ans 170 (11) n = 110

True mum = 2 110>0 Jem: 17.1021 numo gem = 1107,10 ans=1 x 8+5 couter ans; 2(13) num = 11

9ns: 0x2+1 = 1

20 0>0

Refercodo: .. / Bingry 10 Decimal epp

mul = 4

false.

mul: 16

