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...-Operators\04-BitwiseOperators\03-BitwiseXOR\BitwiseXOR.c
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1
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```
#include <stdio.h>
 2
 3
   int main(void)
 4
 5
        //function prototypes
        void PrintBinaryFormOfNumber(unsigned int);
 6
 7
 8
        //variable declarations
 9
        unsigned int a;
10
        unsigned int b;
        unsigned int result;
11
12
13
        //code
14
        printf("\n\n");
15
        printf("Enter An Integer = ");
        scanf("%u", &a);
16
17
        printf("\n\n");
18
        printf("Enter Another Integer = ");
19
20
        scanf("%u", &b);
21
        printf("\n\n\n\n");
22
23
        result = a ^ b;
        printf("Bitwise XOR-ing Of \nA = %d (Decimal) and B = %d (Decimal) gives
24
          result %d (Decimal).\n\n", a, b, result);
25
        PrintBinaryFormOfNumber(a);
26
27
        PrintBinaryFormOfNumber(b);
28
        PrintBinaryFormOfNumber(result);
29
        return(0);
30
31 }
32
   // ***** BEGINNERS TO C PROGRAMMING LANGUAGE : PLEASE IGNORE THE CODE OF THE
     FOLLOWING FUNCTION SNIPPET 'PrintBinaryFormOfNumber()' ******
35 // ****** YOU MAY COME BACK TO THIS CODE AND WILL UNDERSTAND IT MUCH BETTER AFTER 🤝
     YOU HAVE COVERED : ARRAYS, LOOPS AND FUNCTIONS ******
36 // ***** THE ONLY OBJECTIVE OF WRITING THIS FUNCTION WAS TO OBTAIN THE BINARY
      REPRESENTATION OF DECIMAL INTEGERS SO THAT BIT-WISE AND-ing, OR-ing, COMPLEMENT >
      AND BIT-SHIFTING COULD BE UNDERSTOOD WITH GREAT EASE ******
37
38 void PrintBinaryFormOfNumber(unsigned int decimal_number)
39
40
        //variable declarations
41
        unsigned int quotient, remainder;
42
        unsigned int num;
43
        unsigned int binary array[8];
44
        int i;
45
46
        //code
        for (i = 0; i < 8; i++)
47
```

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2
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```
binary_array[i] = 0;
48
49
50
        printf("The Binary Form Of The Decimal Integer %d Is\t=\t", decimal_number);
51
        num = decimal_number;
52
        i = 7;
53
        while (num != 0)
54
55
            quotient = num / 2;
56
            remainder = num % 2;
            binary_array[i] = remainder;
57
58
            num = quotient;
59
            i--;
60
        }
61
        for (i = 0; i < 8; i++)
62
            printf("%u", binary_array[i]);
63
64
65
        printf("\n\n");
66 }
67
```