```
1 #include <stdio.h>
 2
 3 int main(void)
 4 {
 5
        //function prototypes
       void PrintBinaryFormOfNumber(unsigned int);
 6
 7
       //variable declarations
 8
 9
        unsigned int a;
10
       unsigned int num_bits;
       unsigned int result;
11
12
13
       //code
14
       printf("\n\n");
15
       printf("Enter An Integer = ");
16
        scanf("%u", &a);
17
18
       printf("\n\n");
19
       printf("By How Many Bits Do You Want To Shift A = %d To The Right ? ", a);
20
       scanf("%u", &num_bits);
21
       printf("\n\n\n\n");
22
23
       result = a >> num_bits;
        printf("Bitwise RIGHT-SHIFTing A = %d By %d Bits \nGives The Result = %d
24
          (Decimal).\n\n", a, num bits, result);
25
        PrintBinaryFormOfNumber(a);
26
        PrintBinaryFormOfNumber(result);
27
28
       return(0);
29 }
30
32 // ***** BEGINNERS TO C PROGRAMMING LANGUAGE : PLEASE IGNORE THE CODE OF THE
      FOLLOWING FUNCTION SNIPPET 'PrintBinaryFormOfNumber()' ******
33 // ***** YOU MAY COME BACK TO THIS CODE AND WILL UNDERSTAND IT MUCH BETTER AFTER >
     YOU HAVE COVERED: ARRAYS, LOOPS AND FUNCTIONS ******
34 // ***** 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 ******
36 void PrintBinaryFormOfNumber(unsigned int decimal number)
37 {
38
        //variable declarations
39
       unsigned int quotient, remainder;
       unsigned int num;
40
41
       unsigned int binary_array[8];
42
       int i;
43
44
       //code
45
        for (i = 0; i < 8; i++)
46
            binary array[i] = 0;
47
```

```
...BitwiseOperators\05-BitwiseRightShift\BitwiseRightShift.c
```

```
-
```

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