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1  #include <stdio.h>
2  #include <stdlib.h>
3  int main()
4  {
5  {
6      char binary[256]; // char type variable name binary will store the value
        after conversion.
7      int decimal; // int type variable name decimal will store the user
        input decimal value.
8      do
9      {
10         printf("Enter an Integer number for convert to Binary:\n"); //prompt
            the user for the number
11         scanf("%d", &decimal);
12         // if the user input number is negative, tell the user it must be
            non-negative
13         if (decimal < 0)
14             printf("Integer Must Be Non-Negative\n\n");
15         } while (decimal < 0);
16         int length = 0;
17         do
18         {
19             if (decimal % 2 == 0) binary[length] = '0';
20             else binary[length] = '1';
21             decimal /= 2;
22             length++;
23         } while (decimal != 0);
24         binary[length] = '\0';
25         int middle = length / 2;
26         char temp;
27         for (int i = 0; i < middle; i++)
28         {
29             temp = binary[i];
30             binary[i] = binary[length - i - 1];
31             binary[length - i - 1] = temp;
32         }
33         printf("The Binary number is = %s\n\n", binary);
34     }
35     return 0;
36 }
37

```