Write a C Program to print Binary Equivalent of an Integer using Recursion

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
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<tbody>
<tr>
<td>30</td>
<td>The binary equivalent of 30 is 11110</td>
</tr>
<tr>
<td>111</td>
<td>The binary equivalent of 111 is 1101111</td>
</tr>
<tr>
<td>10</td>
<td>The binary equivalent of 10 is 1010</td>
</tr>
<tr>
<td>257</td>
<td>The binary equivalent of 257 is 100000001</td>
</tr>
</tbody>
</table>

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```c
#include <stdio.h>
int binary_conversion(int); //function to convert binary to decimal num
int main()
{
    int num, bin; //num is the decimal number and bin is the binary equ
    scanf("%d", &num); //The decimal number is taken from the test case (bin = binary_conversion(num)); //binary number is stored in variable
    printf("The binary equivalent of %d is %d\n", num, bin);
    return 0;
}
int binary_conversion(int num)
{
    if (num == 0)
        return 0;
    else
        return (num % 2) + 10 * binary_conversion(num / 2);
}
```
(unit? unit=9&lesson=50) 18
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\[ \text{else} \]
\{ \text{return } (\text{num} \mod 2) + 10 \times \text{binary_conversion}(\text{num} / 2); \}

Lecture 37: Function (Contd.) (unit? unit=9&lesson=51)
Lecture 38: Scanf and Printf Functions; Function Prototype (unit? unit=9&lesson=52)
Lecture 39: Parameter Passing in Function Revision (unit? unit=9&lesson=53)
Lecture 40: Parameter Passing in Function Revision (Contd.) (unit? unit=9&lesson=54)
Quiz: Assignment 8 (assessment? name=140)
Week-08 Program-01 (/noc20_cs06/progassignment? name=142)
Week-08 Program-02 (/noc20_cs06/progassignment? name=144)
Week-08 Program-03 (/noc20_cs06/progassignment? name=145)
Week-08 Program-04 (/noc20_cs06/progassignment? name=146)
Week-08 Program-05 (/noc20_cs06/progassignment? name=147)
Feedback For Week 8 (unit? unit=9&lesson=55)
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Assignment Solution

https://onlinecourses.nptel.ac.in/noc20_cs06/progassignment?name=145