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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)

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Course outline

- How does an NPTEL online course work? ()
- Week 0 : ()
- Week 1 ()
- Week 2 ()
- Week 3 ()
- Week 4 ()
- Week 5 ()
- Week 6 ()
- Week 7 ()

Week 8 : Programming Assignment 3

Due on 2023-09-21, 23:59 IST

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

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	30	The binary equivalent of 30 is 11110	The binary equivalent of 30 is 11110\n	Passed
Test Case 2	111	The binary equivalent of 111 is 1101111	The binary equivalent of 111 is 1101111\n	Passed

The due date for submitting this assignment has passed.
2 out of 2 tests passed.
You scored 100.0/100.

Assignment submitted on 2023-09-21, 20:15 IST

Your last recorded submission was :

```
#include <stdio.h>
int binary_conversion(int); //function to convert binary to decimal number
int main()
  {
  int num, bin;  //num is the decimal number and bin is the binary equivalent

  scanf("%d", &num); //The decimal number is taken from the test case data
  bin = binary_conversion(num); //binary number is stored in variable bin
  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);
  }
}

```

Sample solutions (Provided by instructor)

```
#include <stdio.h>
int binary_conversion(int); //function to convert binary to decimal number
int main()
  {
  int num, bin;  //num is the decimal number and bin is the binary equivalent

  scanf("%d", &num); //The decimal number is taken from the test case data
  bin = binary_conversion(num); //binary number is stored in variable bin
  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);
        }
  }
```