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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 5 : Programming Assignment 3

Due on 2023-08-31, 23:59 IST

Write a C program to check whether the given number(N) can be expressed as Power of Two (2) or not.

For example 8 can be expressed as 2^3 .

Your last recorded submission was on 2023-08-29, 21:16 IST

Select the Language for this assignment. C ▾

```

1 #include <stdio.h>
2 int main()
3 {
4     int N;
5     scanf("%d",&N); /* The value of N is taken from the test case data */
6
7     /* Complete the code.
8     Use the printf statements as below
9     printf("%d is a number that can be expressed as power of 2.",N);
10    printf("%d cannot be expressed as power of 2.",N);
11    */

12    if((N&(N-1))==0)
13        printf("%d is a number that can be expressed as power of 2.",N);
14    else
15        printf("%d cannot be expressed as power of 2.",N);
16    return 0;
17 }
```

- Lecture 21:
For Statement
(Contd.) (unit?
unit=52&lesso
n=53)
- Lecture 22:
Example of If-
Else (unit?
unit=52&lesso
n=54)
- Lecture 23 :
Example of
Loops (unit?
unit=52&lesso
n=55)
- Lecture 24 :
Example of
Loops
(Contd.) (unit?
unit=52&lesso
n=56)
- Lecture 25 :
Example of
Loops
(Contd.), Use
of FOR Loops
(unit?
unit=52&lesso
n=57)
- Quiz: Week 5 :
Assignment 5
(assessment?
name=236)
- Week 5 :
Programming
Assignment 1
(/noc23_cs121
/progassignm
ent?
name=237)
- Week 5 :
Programming
Assignment 2
(/noc23_cs121
/progassignm
ent?
name=238)
- **Week 5 :
Programmin
g Assignment
3**

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

Sample Test Cases

| | Input | Output |
|-------------|-------|--|
| Test Case 1 | 8 | 8 is a number that can be expressed as power of 2. |
| Test Case 2 | 66 | 66 cannot be expressed as power of 2. |

(/noc23_cs121/progassignment?name=239)

☒ Week 5 :
Programming
Assignment 4
(/noc23_cs121/progassignment?name=240)

☐ Feedback
Form of Week
5 (unit?
unit=52&lesson=241)

Week 6 ()

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