

1. Describe PDLC in C.
2. Write a C program to find odd or even no using bitwise operators.
3. List the different types of Errors with Examples.
4. Write a C program to calculate sum of first and last digit of a given number.
5. Write a C program to accept a four-digit number from user. Count zero, odd and even digits in the entered number.

Sample Output:

Enter a four-digit number: 1006

Odd digit: 1

Even digit: 1

Zero's: 2

6. Write a C program to generate following pattern for n lines:
Here, n=4 i.e 4 lines



7. Problem statement: Write a C program to count number of bits set to 1 in an Integer.

Hint: We can use [bitwise operator](#) here to solve the problem

8. Write a C program to check whether a given number is palindrome or not.
9. C program to print the series from 1 to 10 and skip numbers 6 and 8.
10. Describe the structure of the C program with a simple example.
11. C program to find number of days in a month using switch case
12. Write a program for the following output.

Enter the number range: 5

1*1=1 1*2=2 1*3=3 1*4=4 1*5=5 1*6=6 1*7=7 1*8=8 1*9=9 1*10=10
2*1=2 2*2=4 2*3=6 2*4=8 2*5=10 2*6=12 2*7=14 2*8=16 2*9=18 2*10=20
3*1=3 3*2=6 3*3=9 3*4=12 3*5=15 3*6=18 3*7=21 3*8=24 3*9=27 3*10=30
4*1=4 4*2=8 4*3=12 4*4=16 4*5=20 4*6=24 4*7=28 4*8=32 4*9=36 4*10=40
5*1=5 5*2=10 5*3=15 5*4=20 5*5=25 5*6=30 5*7=35 5*8=40 5*9=45 5*10=50

13. Write a C program to generate following pattern for n lines.

```
A
B B
C C C
D D D D
E E E E E
```

14. Write a C program to accept 'n' different numbers and display sum of all positive & negative numbers.
15. Write a program, which accepts a number and displays each digit in words.
Example: 6702, Output = Six-Seven-Zero-Two.
16. Mention the output for the following statements.

```
printf("%c",101);
```

```
printf("%d", 7++);
```

A variable name can start with a digit. (TRUE/FALSE).

```
printf("%d",sizeof(short int));
```

```
int z; printf("%d", z=6 | 4);
```

printf is a keyword; TRUE or FALSE.

17. Mention the outputs of below code snippets separately.

i) `printf("%d",++3);`

ii) `printf("%d", -1?0:1);`

iii) `int a; printf("%d",a=0 && 2==2);`

iv) `int a; printf("%d",a=10 | 2==2);`

18. Write a C program to accept 'n' different numbers and display sum of all positive & negative numbers.

19. Write a C Program to find and display the number of characters and words in a user input. Program must take one line of input from the user.