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**Write a C program to check whether a given number is even or odd.**

```
#include<stdio.h>

int main()
{
    int even, odd, n;
    printf("Write a Number: ");
    scanf("%d",&n);
    if (n%2==0){
        printf("It is an Even Number.\n");
    }
    else {
        printf("It is an Odd Number.\n");
    }
    return 0;
}
```

**Output:**

```
"C:\Users\Pranesh chowdhury\Desktop\Algorithm\Even,odd.exe"
Write a Number: 5
It is an Odd Number.

Process returned 0 (0x0)    execution time : 10.860 s
Press any key to continue.
```

```
"C:\Users\Pranesh chowdhury\Desktop\Algorithm\Even,odd.exe"
Write a Number: 12
It is an Even Number.

Process returned 0 (0x0)    execution time : 11.423 s
Press any key to continue.
```

**Write a C program to calculate the factorial of a given number:**

```
#include<stdio.h>

int main()

{

    int fact = 1, n;

    printf("Write the Number: ");

    scanf("%d", &n);


    for (int i=1; i<=n; i++){

        fact = fact * i;

    }

    printf("Factorial is : %d", fact);

    return 0;

}
```

**Output:**

```
"C:\Users\Pranesh chowdhury\Desktop\Algorithm\Factorial.exe"
Write the Number: 7
Factorial is : 5040
Process returned 0 (0x0)   execution time : 3.464 s
Press any key to continue.
```

```
"C:\Users\Pranesh chowdhury\Desktop\Algorithm\EvenOdd.exe"
Write a Number: 5
It is an Odd Number.

Process returned 0 (0x0)   execution time : 10.860 s
Press any key to continue.
```