

# IT161 LAB 8

Name : Snehal Keshav Nalawade

ID : 202151160

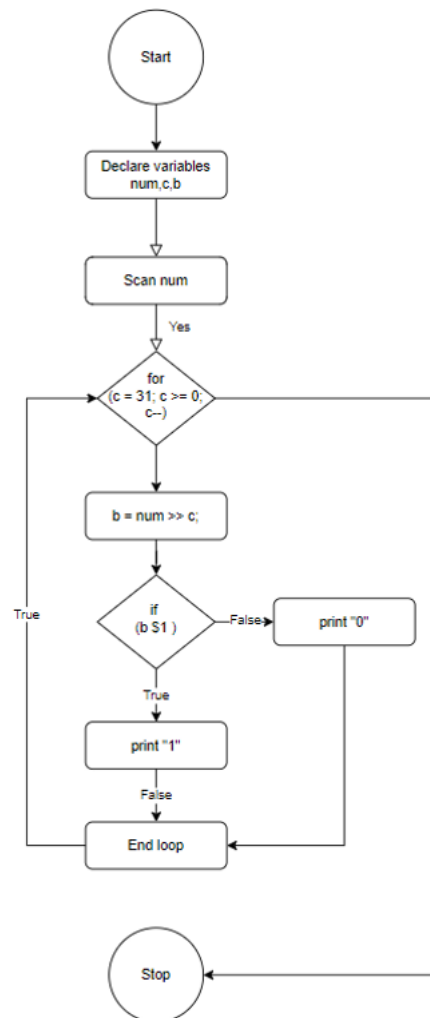
**Aim :** Write a C program to display the stored binary equivalent of a given SIGNED integer (input through keyboard) on the screen, using bitwise operators

**Software Used :** Online GDB Compiler and Debugger for C (IDE)

**Algorithm :**

- 1) Start.
- 2) Declare num, i and result as integers.
- 3) Read num.
- 4) For i >= 0,
- 5) result = num >> i
- 6) If (Check the condition = result & 1)
- 7) a. If true, print 1.
- 8) b. If false, print 0.
- 9) Stop.

## Flowchart :



## Code :

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int num, c, b;
```

```
    printf("Enter an integer :
```

```
");scanf("%d", &num);
```

```

printf("It's binary equivalent is :
");for (c = 31; c >= 0; c--)
{
    b = num >> c;

    if (b & 1)
        printf("1");
    else
        printf("0");
}

return 0;
}

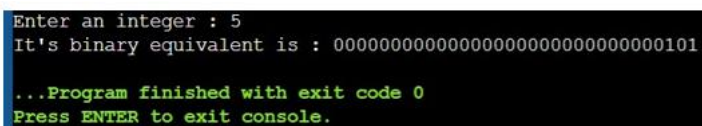
```

## Output :

### Sample 1 :

Enter an integer : 5

It's binary equivalent is : 00000000000000000000000000000101



```

Enter an integer : 5
It's binary equivalent is : 00000000000000000000000000000101
...Program finished with exit code 0
Press ENTER to exit console.

```

### Sample 2 :

Enter an integer : -5

It's binary equivalent is : 1111111111111111111111111111011

```
Enter an integer : -5
It's binary equivalent is : 1111111111111111111111111111011
...Program finished with exit code 0
Press ENTER to exit console.
```

## Conclusion :

The C Code has been successfully implemented and the desired results are obtained.

## Thank You



