IT 161_ Lab8

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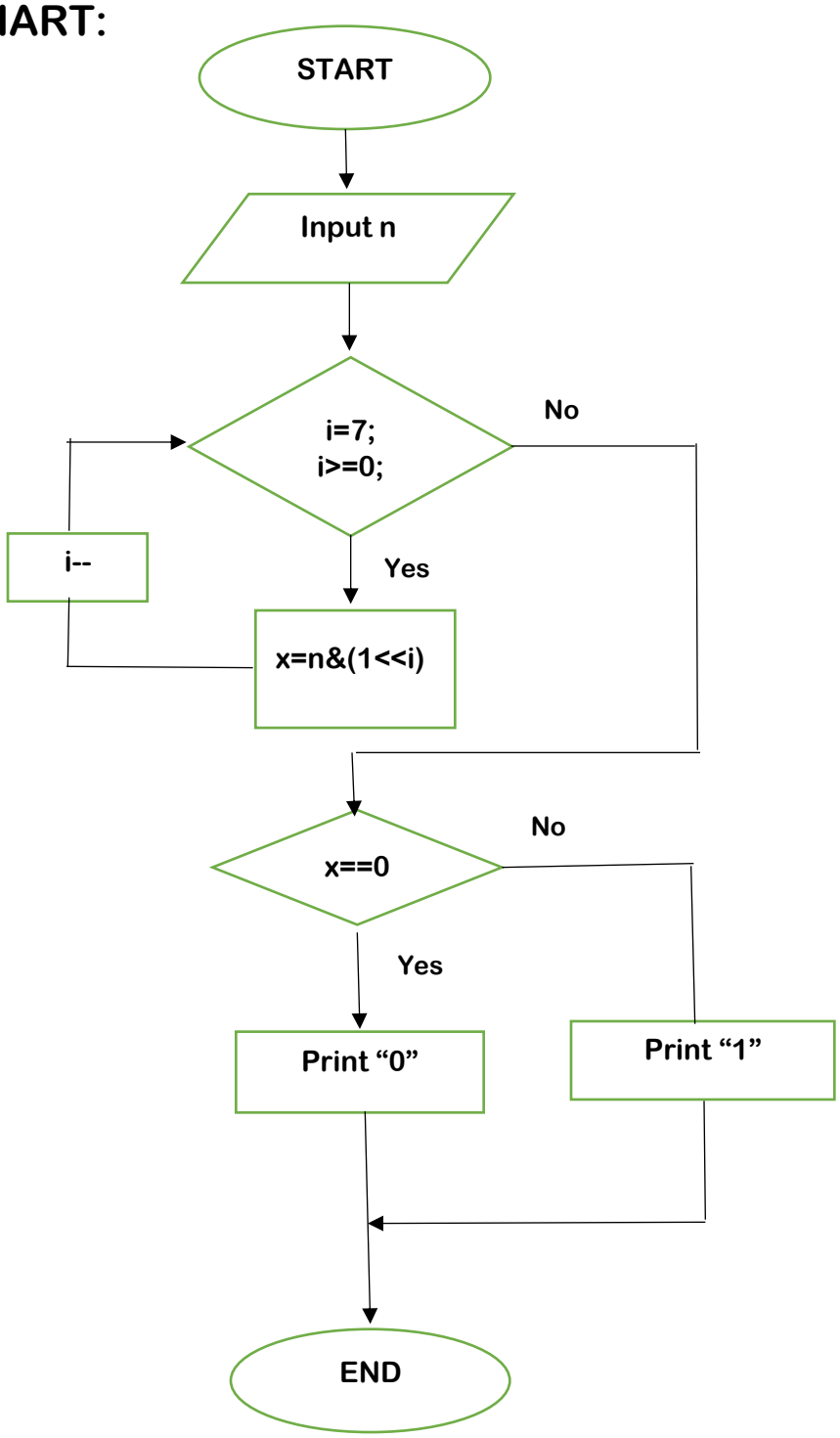
Experiment: To create a C program to display the stored binary equivalent of a given SIGNED integer (input through keyboard) on the screen, using bitwise operators.

Software: Online compiler and debugger for C.

Methodology:

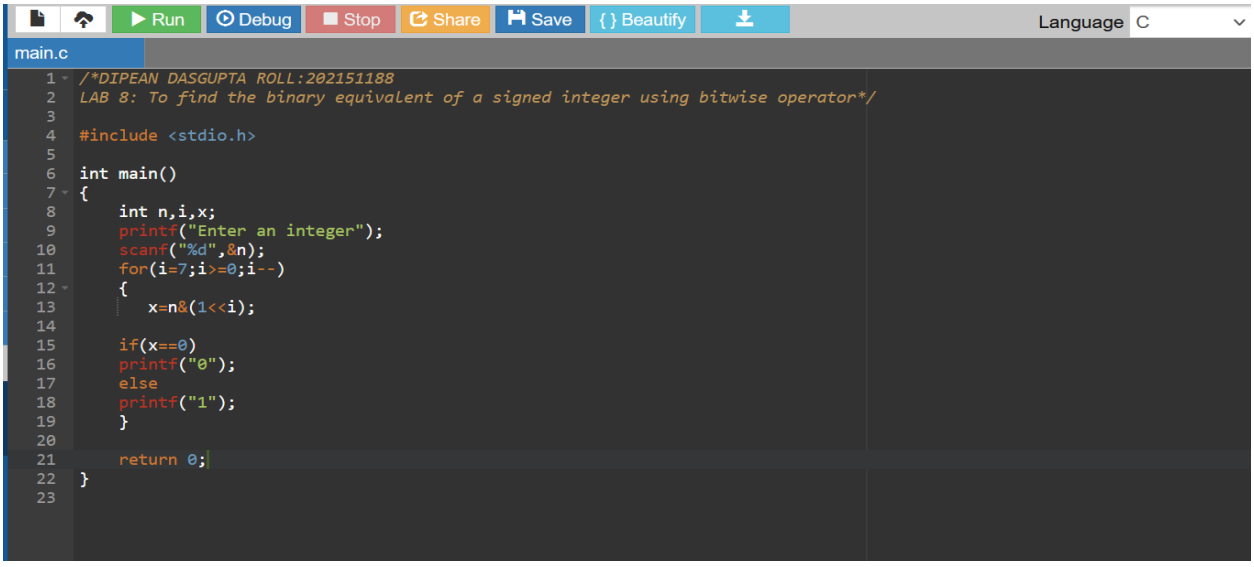
1. Declare n,i,x as integer.
2. Take the input n from the user.
3. Using a for loop(i=7,i>=0) perform the steps 4and 5.
4. Use bitwise and operator and do n&(1<<i).
5. Store the result in x.
6. If the result x==0, then print “0” else print “1”.
7. Print the whole binary equivalent of the integer.
8. End of the program.

FLOWCHART:



CODE:

```
#include <stdio.h>
int main()
{
   int n,i,x;
   printf("Enter an integer");
   scanf("%d",&n);
   for(i=7;i>=0;i--)
   {
     x=n&(1<<i);
   if(x==0)
   printf("0");
   else
   printf("1");
   }
   return 0;
}
```

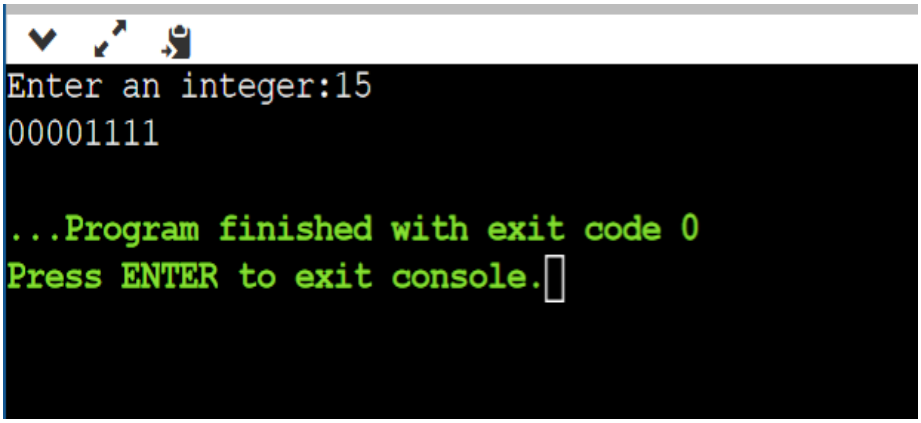


RESULT:

Sample1:

Enter an Integer:15

Binary equivalent is: 00001111



Sample2:

Enter an Integer: -15