DECIMAL TO BINARY CONVERSION

**EXP NO: 25**

**AIM:**

To write a C program to implement decimal to binary conversion.

**ALGORITHM:**

1) Check if your number is odd or even.  
2) If it's even, write 0 (proceeding backwards, adding binary digits to the left of the result).   
3) Otherwise, if it's odd, write 1 (in the same way).  
4) Divide your number by 2 (dropping any fraction) and go back to step1. Repeat until your original number is 0.

**PROGRAM:**

#include<stdio.h>

#include<stdlib.h>

int main ()

{

int a [10],n,i;

printf ("Enter the number to convert: ");

scanf("%d",&n);

for(i=0;n>0;i++)

{

a[i]=n%2;

n=n/2;

}

printf("\nBinary of Given Number is=");

for(i=i-1;i>=0;i--)

{

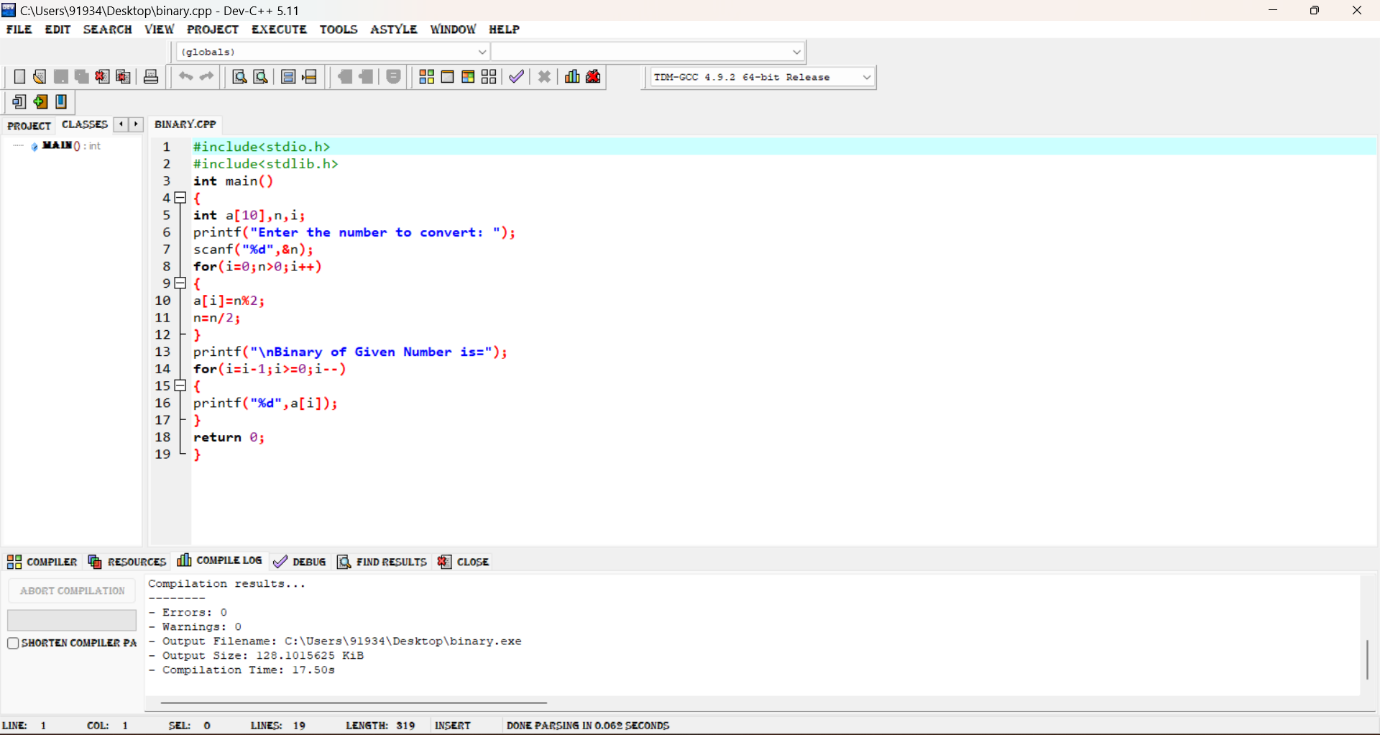
printf("%d",a[i]);

}

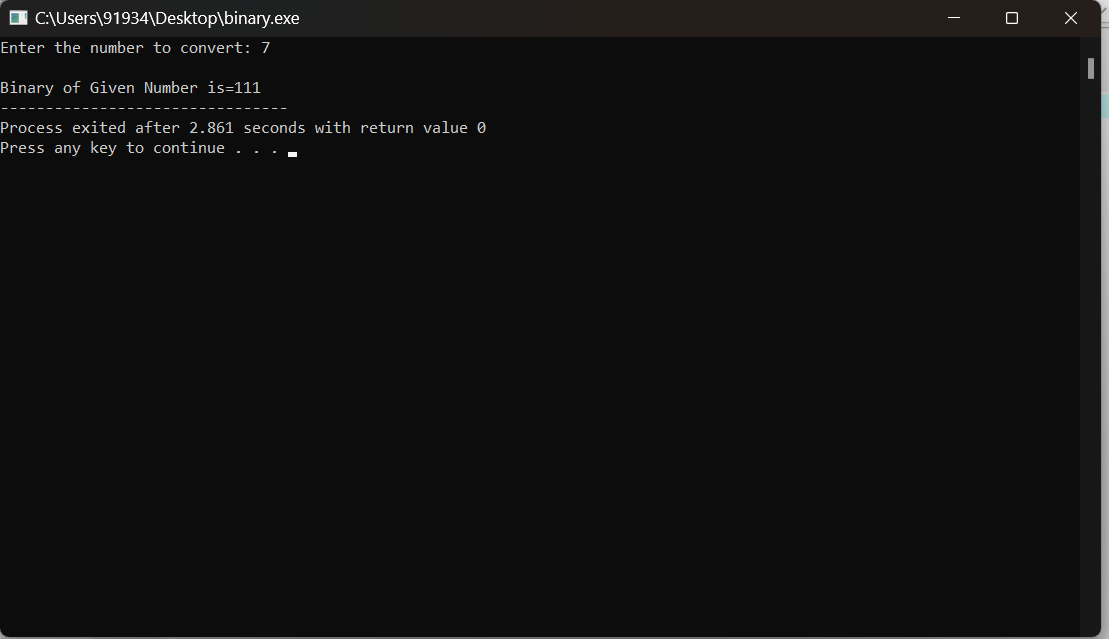
return 0;

}

**INPUT:**



**OUTPUT:**



**RESULT:**

Thus the program was executed successfully using DevC++.