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 step 1. 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]);

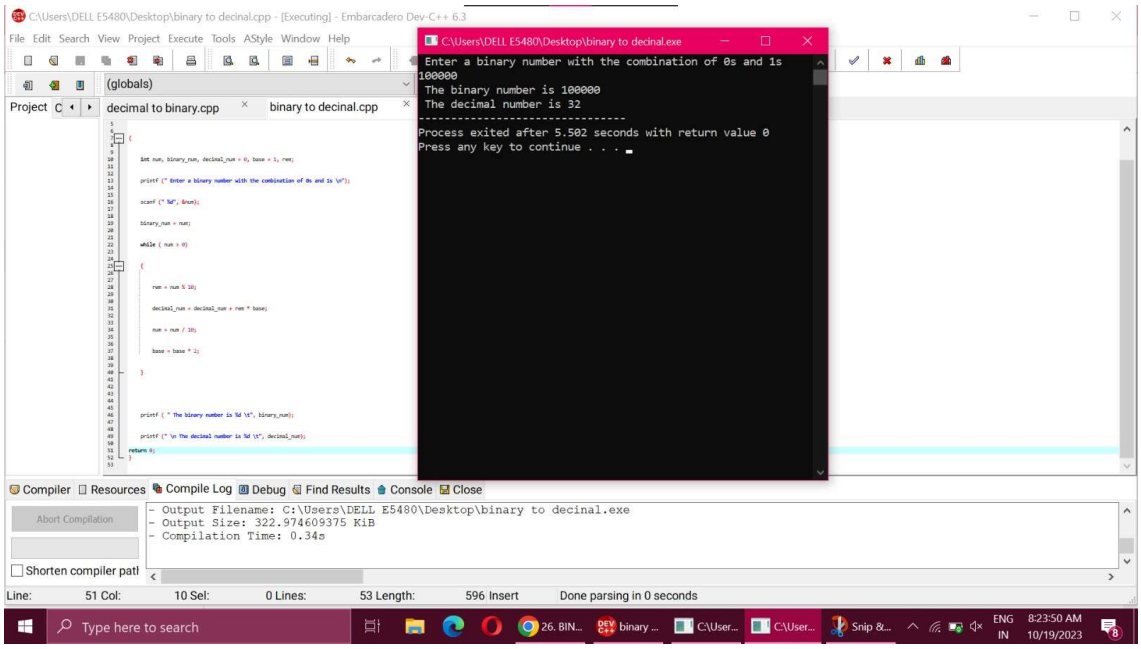
}

Return 0;

}

INPUT:

OUTPUT:



RESULT: Thus the program was executed successfully using DevC++.