## **BINARY TO DECIMAL CONVERSION**

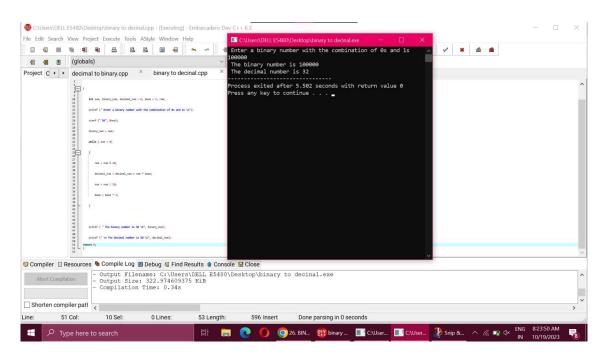
## **EXP NO: 26** AIM:To write a C program to implement binary to decimal conversion. **ALGORITHM:** 1) Start 2) Read the binary number from the user, say 'n' 3) Initialise the decimal number, d=0 4) Initialise i=0 5) Repeat while n != 0: Extract the last digit by: remainder = n % 10 ii. n = n/10d = d + (remainder \*2<sup>i</sup>) iii. Increment i by 1 6) Display the decimal number, d 7) Stop PROGRAM: #include<stdio.h> Void main() { int num, binary\_num, decimal\_num = 0, base= 1, rem; printf (" Enter a binary number with the combination of 0s and 1s \n");

scanf (" %d", &num);

binary\_num = num; while ( num > 0)

```
{
rem = num % 10;
decimal_num = decimal_num + rem *base;
num = num / 10;
base = base * 2;
}
printf (" The binary number is %d \t", binary_num);
printf (" \n The decimal number is %d \t", decimal_num);
}
INPUT:
```

## **OUTPUT:**



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