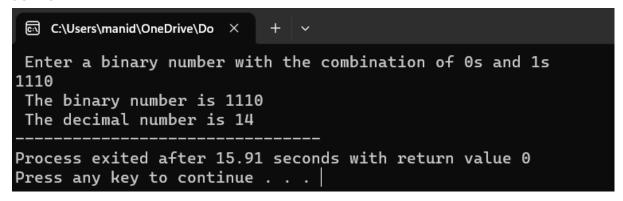
```
AIM:
To write a C program to implement binary
to decimal conversion.
ALGORITHM:
1)
       Start
2)
       Read
the binary number from the user, say 'n'
       Initialize the decimal number, d=0
4) Initialize i=0
5) Repeat while n != 0:
Extract the last digit
by: remainder = n % 1
n = n/10
iii.
d = d + (remainder *
2<sup>i</sup>)
Increment i by 1
6)
       Display
the decimal number, d
7)
       Stop
PROGRAM:
#include<stdio.h>
int 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++