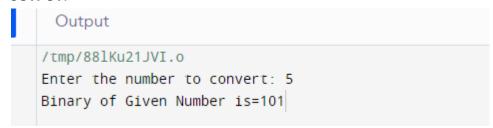**DECIMAL TO BINARY CONVERSION**

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:

```c
#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;



}
```

```
| Output

/tmp/881Ku21JVI.o
Enter the number to convert: 5
Binary of Given Number is=101|
```

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