DECIMAL TO BINARY CONVERSION

EXP NO: 21

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:

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OUTPUT:

```
| Program | Prog
```

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