**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:**

**A black and white background with white text

Description automatically generated**

**OUTPUT:A screenshot of a computer

Description automatically generated**

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