

21. Write a program to convert Decimal number to Binary number using any high level language.

AIM:

Write a c program for convert decimal to binary number.

ALGORITHM:

- Step 1: Divide the number by 2 through % (modulus operator) and store the remainder in array
- Step 2: Divide the number by 2 through / (division operator)
- Step 3: Repeat the step 2 until number is greater than 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;
}
```

OUTPUT:

```
D:\LAB JAN 2023\Computer Architecture lab\21 converting dec to bin.exe
Enter the number to convert: 1247

Binary of Given Number is=00011011111
-----
Process exited after 16.5 seconds with return value 0
Press any key to continue . . .
```

RESULT:

Thus the program to convert decimal to binary number was successfully executed.