**DECIMAL TO OCTAL CONVERSION**

**EXP NO: 29**

**AIM:To write a C program to implement decimal to octal conversion.**

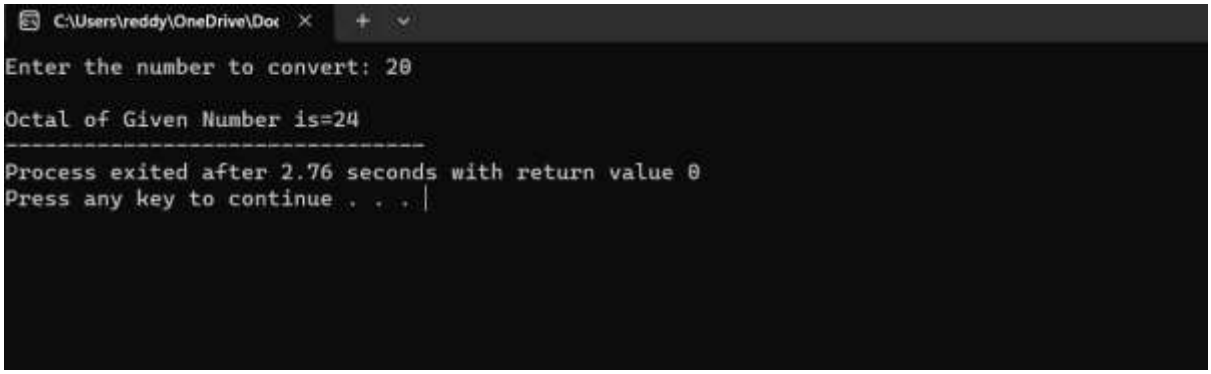
**ALGORITHM:**

1) Store the remainder when the number is divided by 8 in an array.
2) Divide the number by 8 now
3) Repeat the above two steps until the number is not equal to 0.
4) Print the array in reverse order now.

**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%8;

n=n/8;

}

printf("\nOctal of Given Number is=");

for(i=i-1;i>=0;i--)

{

printf("%d",a[i]);

}

return

0;

}
```

**INPUT&OUTPUT:**




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