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/OUTPUT SS:

```
decimal to octal.cpp X
 1 #include <stdio.h>
 2 □ int main(){
   long decimal, remainder, quotient,octal=0;
 4 int octalnum[100], i = 1, j;
   printf("Enter the decimal number:");
   scanf("%ld", &decimal);
 7 | quotient = decimal;
 8 □ while (quotient != 0){
   octalnum[i++] = quotient % 8;
   quotient = quotient / 8;
10
11 | }
   for (j = i - 1; j > 0; j--)
12
   octal= octal*10 + octalnum[j];
13
   printf("Equivalent octal value of decimal no %d is: %d ", decimal,octalnum);
14
    return 0;
15
16 L }
                                                     X
       © C:\Users\praba\OneDrive\Des ×
      Enter the decimal number: 32.2
      Equivalent octal value of decimal no 32 is: 6683760
      Process exited after 2.613 seconds with return value 0
      Press any key to continue . . .
```