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.

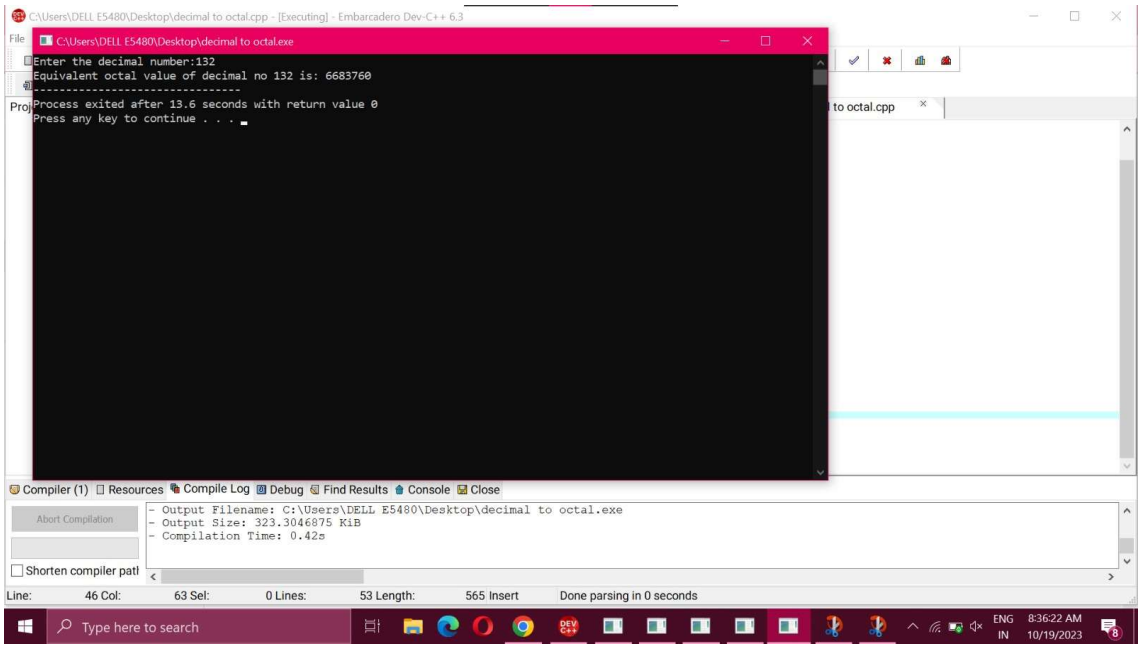
PROGRAM:

```
#include<stdio.h>

Int main()

{

long decimal, remainder, quotient,octal=0;

int octalnum[100], i = 1, j;

printf("Enter the decimal number:");

scanf("%ld", &decimal);

quotient = decimal;

while (quotient != 0)

{

octalnum[i++] = quotient % 8;

quotient = quotient / 8;

}
```

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

octal= octal*10 + octalnum[j];

printf("Equivalent octal value of decimal no %d is: %d  ", decimal,octalnum);

return 0;

}
```

INPUT:

OUTPUT:



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