DECIMAL TO HEXADECIMAL CONVERSION

EXP NO: 28

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

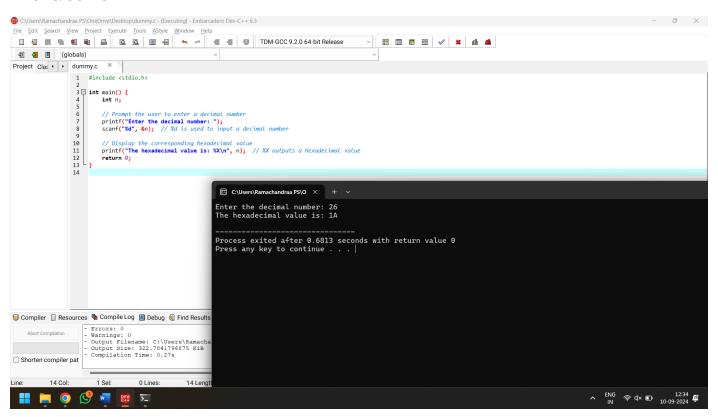
ALGORITHM:

- 1. Start from the decimal number.
- 2. Divide the number by 16 and keep track of the remainder.
- 3. The remainder gives the hexadecimal equivalent for that digit. (0=0, 1=1, 2=2, ... 9=9, 10=A, 11=B, 12=C, 13=D, 14=E, 15=F)
- 4. Repeat the division by 16 until the quotient becomes 0.
- 5. Write the remainders in reverse order to get the hexadecimal number.

PROGRAM:

```
#include <stdio.h>
int main() {
  int n
  // Prompt the user to enter a decimal number
  printf("Enter the decimal number: ");
  scanf("%d", &n); // %d is used to input a decimal number
  // Display the corresponding hexadecimal value
  printf("The hexadecimal value is: %X\n", n); // %X outputs a hexadecimal value
  return 0;
}
```

INPUT & OUTPUT:



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