HEXADECIMAL TO DECIMAL CONVERSION

EXP NO: 27

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

ALGORITHM:

- 1) Start from the right-most digit. Its weight (or coefficient) is 1.
- 2) Multiply the weight of the position by its digit. Add the product to the result.

```
(0=0, 1=1, 2=2, ... 9=9, A=10, B=11, C=12, D=13, E=14,F=15)
```

- 3) Move one digit to the left. Its weight is 16 times the previous weight.
- 4) Repeat 2 and 3 until you go through all hexadecimal digits.

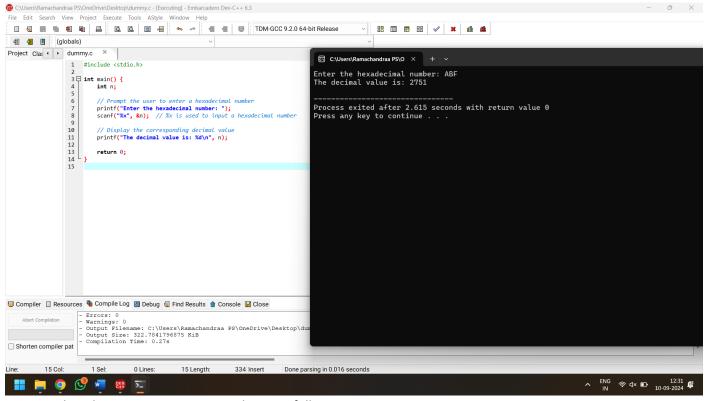
PROGRAM:

```
#include <stdio.h>
int main() {
  int n;

// Prompt the user to enter a hexadecimal number
  printf("Enter the hexadecimal number: ");
  scanf("%x", &n); // %x is used to input a hexadecimal number
  // Display the corresponding decimal value
  printf("The decimal value is: %d\n", n);
  return 0;
```

INPUT & OUTPUT:

}



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