**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/OUTPUT SS:**

hexadecimal to decimal conversion.cpp

```c
#include <stdio.h>
int main(){
    int n;
    printf("Enter the hex decimal number:");
    scanf("%x",&n);
    printf("The decimal value is %d",n);
    return 0;
}
```

```
C:\Users\praba\OneDrive\Des
Enter the hex decimal number:A45
The decimal value is 2629
--------------------------------
Process exited after 2.904 seconds with return value 0
Press any key to continue . . .
```

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