HEXADECIMAL TO DECIMAL CONVERSION

EXP NO: 26

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;

        printf("enter the hex decimal
number");

        scanf("%x",&n);

        printf("the decimal value
is:%d",n);

        return 0;

}
```

INPUT:

```
enter the hex decimal number100
the decimal value is:256
```

OUTPUT:

enter the hex decimal number100
the decimal value is:256

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