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:

```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;
}
```

INPUT & OUTPUT:

```
enter the hex decimal number
3A8C
the decimal value is:14988
---------------------------------
Process exited after 17.95 seconds with return value 0
Press any key to continue . . .
```

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