

## HEXADECIMAL TO DECIMAL CONVERSION

EXP NO: 27

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

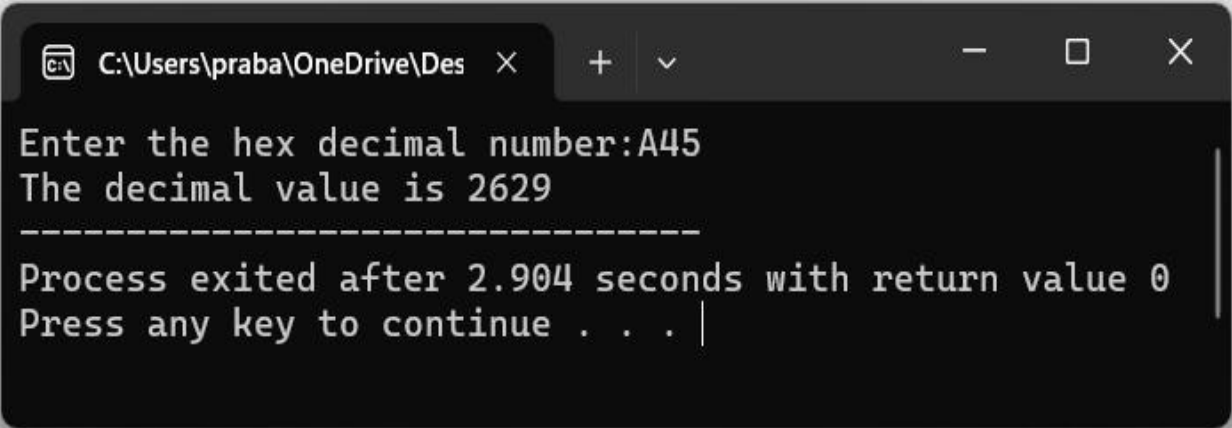
### ALGORITHM:

- 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

```
1 #include <stdio.h>
2 int main(){
3     int n;
4     printf("Enter the hex decimal number:");
5     scanf("%x",&n);
6     printf("The decimal value is %d",n);
7     return 0;
8 }
```



```
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++.