

## 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;
```

```
printf("enter the hex decimal number");
```

```
scanf("%x",&n);
```

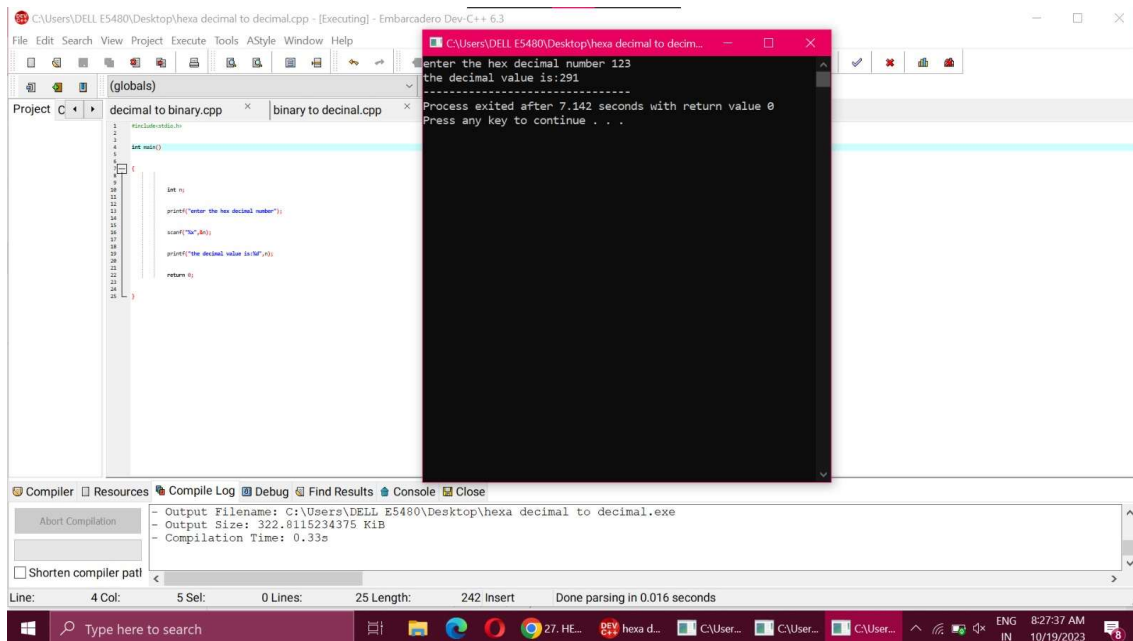
```
printf("the decimal value is:%d",n);
```

```
return 0;
```

```
}
```

INPUT:

## OUTPUT:



```
enter the hex decimal number 123
the decimal value is:291
-----
Process exited after 7.142 seconds with return value 0
Press any key to continue . . .
```

```
1 //decimal to binary.cpp
2
3 #include<iostream.h>
4
5 int main()
6 {
7     int n;
8     printf("enter the hex decimal number");
9     scanf("%d",&n);
10    printf("the decimal value is:%d",n);
11    return 0;
12 }
```

Compiler Resources Compile Log Debug Find Results Console Close

Output Filename: C:\Users\DELL E5480\Desktop\hexa decimal to decimal.exe  
Output Size: 322.8115234375 KiB  
Compilation Time: 0.33s

Shorten compiler path

Line: 4 Col: 5 Sel: 0 Lines: 25 Length: 242 Insert Done parsing in 0.016 seconds

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