

AIM:

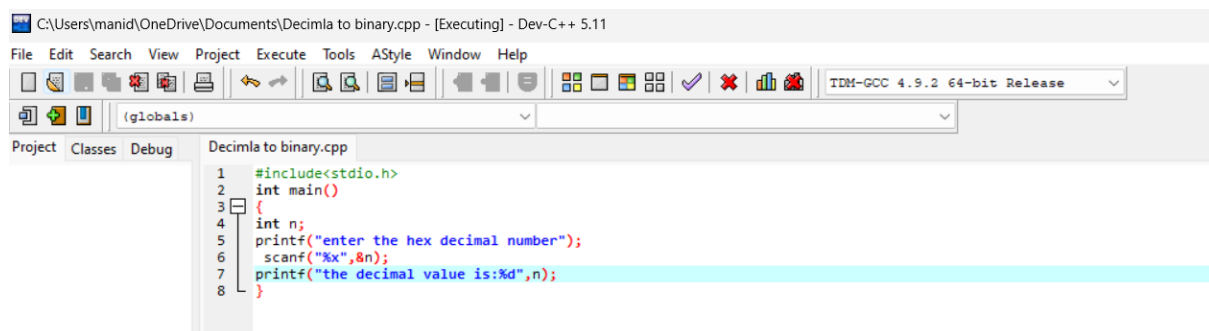
To write a C program to implement hexadecimal to decimal conversion.

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:

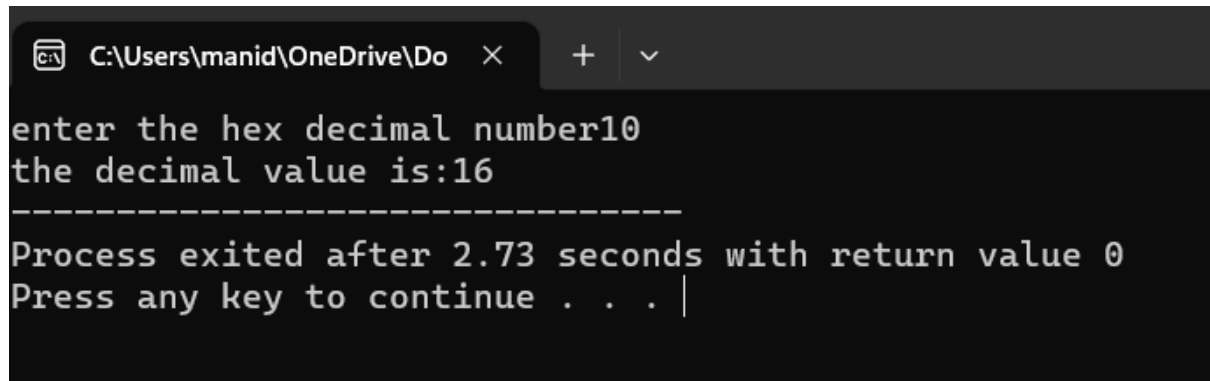
```
#include<stdio.h>
int main()
{
int n;
printf("enter the hex decimal number");
scanf("%x",&n);
printf("the decimal value is:%d",n);
}
```

INPUT:

The screenshot shows the Dev-C++ IDE interface. The title bar indicates the file path: C:\Users\manid\OneDrive\Documents\Decimla to binary.cpp - [Executing] - Dev-C++ 5.11. The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations, execution, and debugging. The compiler is set to TDM-GCC 4.9.2 64-bit Release. The project explorer on the left shows a project named 'Decimla to binary.cpp'. The main editor window displays the C code from the previous block, with line numbers 1 through 8. The code is as follows:

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

OUTPUT:

A screenshot of a DevC++ terminal window. The title bar shows the file path 'C:\Users\manid\OneDrive\Do' and standard window controls. The terminal text is as follows:

```
enter the hex decimal number10
the decimal value is:16
-----
Process exited after 2.73 seconds with return value 0
Press any key to continue . . . |
```

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