DECIMAL TO HEXADECIMAL CONVERSION

EXP NO: 28

AIM: To write a C program to implement decimal to hexadecimal 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 decimal;

    printf("Enter a decimal number: ");

    scanf("%d", &decimal);


    printf("Hexadecimal representation: %X\n", decimal);


    return 0;

}
```
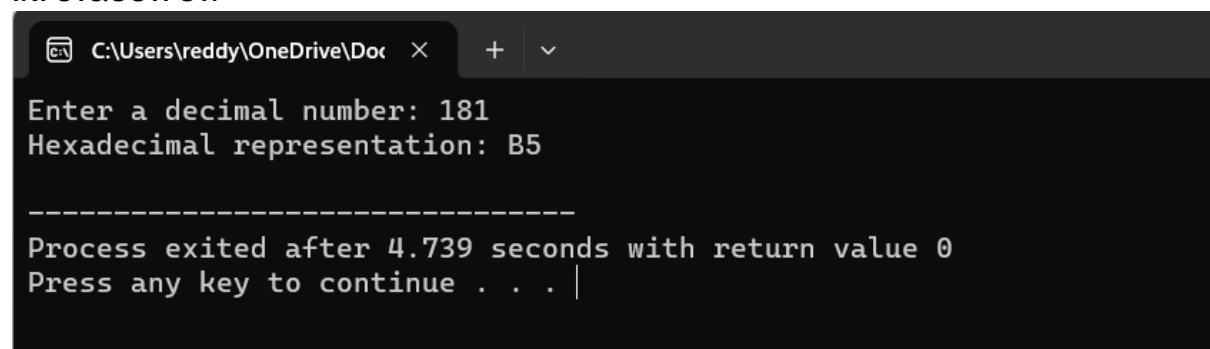
INPUT&**OUTPUT:**


```
Enter a decimal number: 181
Hexadecimal representation: B5

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Process exited after 4.739 seconds with return value 0
Press any key to continue . . .
```

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