

## DECIMAL TO HEXADECIMAL CONVERSION:

### PROGRAM:

```
#include<stdio.h>
```

```
int main() {
```

```
    long  
    int decimalNumber,remainder,quotient;
```

```
    int  
    i=1,j,temp;
```

```
    char  
    hexadecimalNumber[100];
```

```
    printf("Enter  
any decimal number: ");
```

```
    scanf("%ld",&decimalNumber);
```

```
    quotient  
    = decimalNumber;
```

```
    while(quotient!=0)  
{
```

```
        temp  
        = quotient % 16;
```

```
        //To  
        convert integer into character
```

```
        if(  
        temp < 10)
```

```
temp =temp + 48; else
```

```
temp = temp + 55;
```

```
hexadecimalNumber[i++] =  
temp;
```

```
quotient  
= quotient / 16;
```

```
}
```

```
printf("Equivalent  
hexadecimal value of decimal number %d: ",decimalNumber);
```

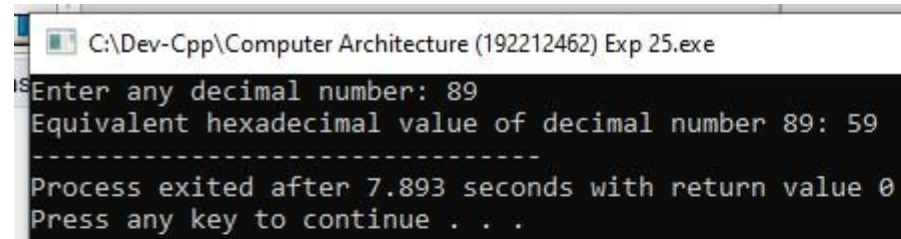
```
for  
(j = i -1 ;j> 0;j--)
```

```
printf("%c",hexadecimalNumber[j]);
```

```
return  
0;
```

```
}
```

INPUT & OUTPUT:



A screenshot of a DevC++ console window. The title bar at the top reads "C:\Dev-Cpp\Computer Architecture (192212462) Exp 25.exe". The console output is as follows:  
Enter any decimal number: 89  
Equivalent hexadecimal value of decimal number 89: 59  
-----  
Process exited after 7.893 seconds with return value 0  
Press any key to continue . . .

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