

January

Decimal To Hexadecimal

Saturday

```

# include <stdio.h>
# include <conio.h>
# include <math.h>
int num, a[10], rem, base=16, num1, j, i;
char b[10];
void main ()
{
clrscr();
printf ("\n Enter Decimal Number: ");
scanf ("%d", &num);
num1 = num;
while (num1 >= 16)
{
rem = num1 % base;
if (rem <= 9)
{
b[i] = '\0';
a[i] = rem;
}
else
{
if (rem == 10)
b[i] = 'A';
if (rem == 11)
b[i] = 'B';
if (rem == 12)
b[i] = 'C';
if (rem == 13)
b[i] = 'D';
if (rem == 14)
b[i] = 'E';

```

Monday

if (rem == 15)

b[i] = 'F';

a[i] = ~~base~~ base;

}

num1 = num1 / ~~base~~ base;

i = i + 1;

}

if (num1 <= 9)

{

b[i] = '0';

a[i] = num1;

}

else

{

if (num1 == 10)

b[i] = 'A';

if (num1 == 11)

b[i] = 'B';

if (num1 == 12)

b[i] = 'C';

if (num1 == 13)

b[i] = 'D';

if (num1 == 14)

b[i] = 'E';

if (num1 == 15)

b[i] = 'F';

a[i] = ~~base~~ base;

}

printf("\n Equivalent Hexadecimal number is:");

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

{

if (a[j] != ~~base~~ base)


```
printf ("%d", a[j]);  
if (b[j] != '0')  
printf ("%c", b[j]);  
}  
printf ("H");  
getch();  
}
```

Output:

Enter Decimal Number : 283

Equivalent Hexadecimal number is : 11BH

Again

Enter Decimal Number : 573

Equivalent Hexadecimal number is : 23DH