

```
""" This programs convert a given hexa number to  
equivalent decimal number"""
```

```
hexa1 = raw_input("Enter hexa number: ")  
hex_dic = {'A':10, 'B':11, 'C':12, 'D':13, 'E':14, 'F':15}  
hexa2 = hexa1  
power = 0  
deci = 0  
for rem in hexa1[::-1]:  
    rem = rem.upper()  
    if rem in hex_dic:  
        deci += hex_dic[rem] * 16 ** power  
    elif rem in "0123456789":  
        deci += int(rem) * 16 ** power  
    else:  
        print "The given hex number %s is not a hex" %hexa2  
        break  
    power +=1  
else:  
    print "The decimal number of given hex number %s is %d" %(hexa2,deci)
```

```
""" Same program without starting from the reverse of string can be  
written as below"""
```

```
deci=0  
length = len(hexa1) # take length of the string  
power = length-1    # power must start from  
for rem in hexa1:  
    rem = rem.upper()  
    if rem in hex_dic:  
        deci += hex_dic[rem] * 16 ** power  
    elif rem in "0123456789":  
        deci += int(rem) * 16 ** power  
    else:  
        print "The given hex number %s is not a hex" %hexa2  
        break  
    power -=1  
else:  
    print "The decimal number of given hex number %s is %d" %(hexa2,deci)
```