1. Write a Python Program to Find LCM?

Ans: #the code designed for 2 values

#user defined input

N1=int(input("enter Value1"))

N2=int(input("enter Value2"))

LCM=1

F1=[]

if(N1<N2):

for i in range(1,N1+1):

if(N1%i==0 and N2%i==0):

F1.append(i)

else:

for i in range(1,N2+1):

if(N1%i==0 and N2%i==0):

F1.append(i)

LCM1=1

for i in range(1,len(F1)):

LCM1=LCM1\*F1[i]

D1=N1/LCM1

D2=N2/LCM1

LCM=LCM1\*D1\*D2

print("the lowest common multiple of {} and {} is ".format(N1,N2),LCM)

1. Write a Python Program to Find HCF?

Ans: #the code designed for 2 values

#user defined input

N1=int(input("enter Value1"))

N2=int(input("enter Value2"))

V1=N1

V2=N2

HCF=1

i=2

if(N1<N2):

while(i<=N1):

if(N1%i==0 and N2%i==0):

HCF=HCF\*i

N1=N1/i

N2=N2/i

else:

i=i+1

else:

while(i<=N2):

if(N1%i==0 and N2%i==0):

HCF=HCF\*i

N1=N1/i

N2=N2/i

else:

i=i+1

print("the highest common factor of {} and {} is ".format(V1,V2),HCF)

1. Write a Python Program to Convert Decimal to Binary, Octal and Hexadecimal?

#user defined input

Ans:N=int(input("enter a decimal number"))

De=N

O=N

H=N

#Conversion to binary

Bi=[]

while(N>=1):

R=int(N%2)

Bi.append(R)

N=N/2

Bi.reverse()

s = [str(i) for i in Bi]

binary = int("".join(s))

#Conversion to octal

Oc=[]

while(O>=1):

Or=int(O%8)

Oc.append(Or)

O=O/8

Oc.reverse()

s = [str(i) for i in Oc]

octal = int("".join(s))

#Conversion to hexadecimal

Hd=[]

while(H>=1):

Hr=int(H%16)

if Hr==10:

Hd.append("A")

elif Hr==11:

Hd.append("B")

elif Hr==12:

Hd.append("C")

elif Hr==13:

Hd.append("D")

elif Hr==14:

Hd.append("E")

elif Hr==15:

Hd.append("F")

else:

Hd.append(Hr)

H=H/16

Hd.reverse()

#displaying

print("decimal number {} converted to binary value {},octal value {} ".format(De,binary,octal),end="")

print("and hexadecimal value ",end="")

for i in Hd:

print(i,end="")

1. Write a Python Program To Find ASCII value of a character?

Ans: #user defined input

Chr=input("enter the character for which ascii you want :")

Displaying ascii code

print("the ascii code of {} : ".format(Chr),ord(Chr))

1. Write a Python Program to Make a Simple Calculator with 4 basic mathematical operations?

Ans:#user defined function

N1=float(input("enter value 1"))

N2=float(input("enter value 2"))

msg=input("enter an operation")

#operation and displaying

if msg=="addition":

print("addition of {} and {}:N1+N2 = ".format(N1,N2),N1+N2)

elif msg=="subtraction":

print("subtraction of {} and {}:N1-N2 = ".format(N1,N2),N1-N2)

elif msg=="multiplication": print("multiplication of {} and {}:N1\*N2 = ".format(N1,N2),N1\*N2)

elif msg=="division":

print("division of {} and {}:N1/N2 = ".format(N1,N2),N1/N2

else:

print("error")