1. Write a Python Program to Find LCM?
2. Write a Python Program to Find HCF?
3. Write a Python Program to Convert Decimal to Binary, Octal and Hexadecimal?
4. Write a Python Program To Find ASCII value of a character?
5. Write a Python Program to Make a Simple Calculator with 4 basic mathematical operations?

#1. Write a Python Program to Find LCM?

class Assignment5:

def logger1(s,y):

import logging as lg

lg.basicConfig(filename="Assignment5.txt",level=lg.DEBUG,format="%(asctime)s %(name)s %(levelname)s %(message)s")

cl = lg.StreamHandler()

cl.setLevel(lg.INFO)

format=lg.Formatter("%(asctime)s %(name)s %(levelname)s %(message)s")

cl.setFormatter(format)

lg.getLogger('').addHandler(cl)

a=lg.getLogger("Assignment5")

a.info(y)

def logger2(s,y):

import logging as l

l.basicConfig(filename="Assignment5.txt",level=l.DEBUG,format="%(asctime)s %(name)s %(levelname)s %(message)s")

c = l.StreamHandler()

c.setLevel(l.ERROR)

format=l.Formatter("%(asctime)s %(name)s %(levelname)s %(message)s")

c.setFormatter(format)

l.getLogger('').addHandler(c)

a=l.getLogger("Assignment5.error")

a.info(y)

def LCM(s):

try:

n=int(input("Enter the first number"))

n1=int (input("Enter the second number"))

max=0

if n>n1:

max=n

while True:

if (max%n==0) and (max%n1==0):

s.logger1("The LCM is "+str(max))

break

else:

max += 1

elif n<n1:

max=n1

while True:

if (max%n==0) and (max%n1==0):

s.logger1("The LCM is "+str(max))

break

else:

max += 1

else:

s.logger1("The LCM is "+str(n))

except Exception as e :

s.logger2(str(e))

def HCF(s):

try:

n=int(input("Enter the first number"))

n1=int (input("Enter the second number"))

if n>n1:

for i in range(1,n1+1):

if (n%i==0) and (n1%i==0):

c=i

s.logger1("The HCF is "+str(c))

elif n<n1:

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

if (n%i==0) and (n1%i==0):

c=i

s.logger1("The HCF is "+str(c))

elif n==n1:

s.logger1("The HCF is "+str(n))

except Exception as e :

s.logger2(str(e))

def Conversion(s):

try:

decimal=int(input("Enter a decimal number "))

s.logger1("Binary is "+str(bin(decimal)))

s.logger1("Octal is "+str(oct(decimal)))

s.logger1("Hexadecimal is"+str(hex(decimal)))

except Exception as e:

s.logger2(str(e))

def ASCII(s):

try:

char=input("Enter a charector")

s.logger1(str(ord(char)))

except Exception as e:

s.logger2(str(e))

def calculator(s):

try:

num1=float(input("Enter number1 "))

num2=float(input("Enter number2 "))

choice = int(input("Enter a choice between 1-4"))

if choice ==1:

n= num1+num2

s.logger1("Addition "+str(n))

elif choice ==2:

n= num1-num2

s.logger1("Subtraction "+str(n))

elif choice ==3:

n= num1\*num2

s.logger1("Multiplication "+str(n))

elif choice == 4:

n= num2/num1

s.logger1("Division "+str(n))

else:

s.logger1("Invalid Input")

except Exception as e:

s.logger2(str(e))

def \_\_str\_\_(s):

return "End of Python Programming Assignment 5"