1. Write a Python Program to Find LCM?

# Python Program to calculate the lcm

# Get 2 numbers from the user

while True:

try:

a= input("Enter first number ")

b = input("Enter second number ")

a,b = int(a), int(b)

break

except ValueError:

print("Enter valid integer numbers ")

# function to calculate the lcm

def calculate\_lcm(x,y):

if x > y:

num = x

else:

num = y

while(True):

if((num % x == 0) and (num % y == 0)):

lcm = num

break

num = num + 1

return lcm

# Print the lcm of two numbers

print("LCM of two numbers ",a,",", b, "is:",calculate\_lcm(a,b))

1. Write a Python Program to Find HCF?

# Python Program to calculate the hcf

# Get 2 numbers from the user

while True:

try:

a= input("Enter first number ")

b = input("Enter second number ")

a,b = int(a), int(b)

break

except ValueError:

print("Enter valid integer numbers ")

# function to calculate the hcf

def calculate\_hcf(x,y):

if x < y:

num = x

else:

num = y

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

if((x % i == 0) and (y % i == 0)):

hcf = i

return hcf

# Print the hcf of two numbers

print("hcf of two numbers ",a,",", b, "is:",calculate\_hcf(a,b))

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

# Python Program to Convert Decimal to Binary, Octal and Hexadecimal

# Get number from the user

while True:

try:

a= input("Enter a number ")

a = int(a)

break

except ValueError:

print("Enter a valid integer number ")

# print binary, octal and hexadecimal of a number

print("The binary value of a number ", a, "is:", bin(a))

print("The octal value of a number ", a, "is:", oct(a))

print("The hexadecimal value of a number ", a, "is:", hex(a))

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

# Python Program To Find ASCII value of a character

# Get a character from the user

c = input("Enter the character : ")

# print the ASCII value of a character using the function ord

print("The ASCII value of a character ",c,"is : ",ord(c))

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

# Python Program to Make a Simple Calculator with 4 basic mathematical operations

# Get 2 numbers from the user

while True:

try:

a= input("Enter first number ")

b = input("Enter second number ")

a,b = int(a), int(b)

break

except ValueError:

print("Enter valid integer numbers ")

# Get the mathematical operator from the user

print("Select the operation to perform \n"

"1 for addition\n" \

"2 for subtraction\n" \

"3 for multiplication\n" \

"4 for Division\n")

operator = int(input("Enter the number for mathematical operation"))

# Function to perform addition

def addition(x,y):

return x+y

# Function to perform subtraction

def subtraction(x,y):

return x-y

# Function to perform multiplication

def multiplication(x,y):

return x\*y

# Function to perform division

def division(x,y):

return x/y

# call the function based on the operator chosen

if operator == 1:

operation = "+"

result = addition(a,b)

elif operator == 2:

operation = "-"

result = subtraction(a,b)

elif operator == 3:

operation = "\*"

result = multiplication(a,b)

elif operator == 4:

operation = "/"

result = division(a,b)

else:

print("wrong input given for operator selection")

# print the result of mathematical operation

print(a,operation,b,"=",result)