1. Write a Python Program to Find LCM?

Sol:- def lcm(a, b):

"""

This function returns the LCM of two numbers.

"""

# find the greater number

if a > b:

greater = a

else:

greater = b

while True:

# check if the greater number is divisible by both numbers

if greater % a == 0 and greater % b == 0:

lcm = greater

break

greater += 1

return lcm

# test the function

print("LCM of 12 and 20 is:", lcm(12, 20))

print("LCM of 8 and 15 is:", lcm(8, 15))

1. Write a Python Program to Find HCF?

Sol:- def find\_hcf(num1, num2):

"""

This function finds the HCF of two given numbers

"""

smaller = min(num1, num2)

hcf = 1

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

if num1 % i == 0 and num2 % i == 0:

hcf = i

return hcf

# Example usage

num1 = 24

num2 = 36

print("The HCF of", num1, "and", num2, "is", find\_hcf(num1, num2))

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

Sol:- dec = int(input("Enter a decimal number: "))

print("Binary representation:", bin(dec))

print("Octal representation:", oct(dec))

print("Hexadecimal representation:", hex(dec))

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

Sol:- # Take user input

char = input("Enter a character: ")

# Convert character to its ASCII value

ascii\_value = ord(char)

# Print the result

print("The ASCII value of", char, "is", ascii\_value)

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

Sol:- def add(x, y):

return x + y

def subtract(x, y):

return x - y

def multiply(x, y):

return x \* y

def divide(x, y):

return x / y

while True:

# Take input from the user

print("Select operation.")

print("1.Add")

print("2.Subtract")

print("3.Multiply")

print("4.Divide")

choice = input("Enter choice(1/2/3/4): ")

# Check if choice is one of the four options

if choice in ('1', '2', '3', '4'):

num1 = float(input("Enter first number: "))

num2 = float(input("Enter second number: "))

if choice == '1':

print(num1, "+", num2, "=", add(num1, num2))

elif choice == '2':

print(num1, "-", num2, "=", subtract(num1, num2))

elif choice == '3':

print(num1, "\*", num2, "=", multiply(num1, num2))

elif choice == '4':

print(num1, "/", num2, "=", divide(num1, num2))

break

else:

print("Invalid Input")