1. **Write a Python Program to Find LCM?**

def gcd(a, b):

if b == 0:

return a

else:

return gcd(b, a % b)

# Function to find the LCM of two numbers

def lcm(a, b):

return (a \* b) // gcd(a, b)

# Get user input for the two numbers

num1 = int(input("Enter the first number: "))

num2 = int(input("Enter the second number: "))

# Find the LCM of the two numbers using the lcm() function

lcm\_num = lcm(num1, num2)

# Print the LCM of the two numbers

print("The LCM of {0} and {1} is {2}".format(num1, num2, lcm\_num))

1. **Write a Python Program to Find HCF?**

def hcf(a, b):

if b == 0:

return a

else:

return hcf(b, a % b)

# Get user input for the two numbers

num1 = int(input("Enter the first number: "))

num2 = int(input("Enter the second number: "))

# Find the HCF of the two numbers using the hcf() function

hcf\_num = hcf(num1, num2)

# Print the HCF of the two numbers

print("The HCF of {0} and {1} is {2}".format(num1, num2, hcf\_num))

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

dec\_num = int(input("Enter a decimal number: "))

# Convert the decimal number to binary, octal, and hexadecimal

bin\_num = bin(dec\_num)

oct\_num = oct(dec\_num)

hex\_num = hex(dec\_num)

# Print the converted values

print("Binary: ", bin\_num)

print("Octal: ", oct\_num)

print("Hexadecimal: ", hex\_num)

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

char = input("Enter a character: ")

# Find the ASCII value of the character

ascii\_val = ord(char)

# Print the ASCII value of the character

print("The ASCII value of '{0}' is {1}".format(char, ascii\_val))

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

# Define a function to perform addition

def add(num1, num2):

return num1 + num2

# Define a function to perform subtraction

def subtract(num1, num2):

return num1 - num2

# Define a function to perform multiplication

def multiply(num1, num2):

return num1 \* num2

# Define a function to perform division

def divide(num1, num2):

return num1 / num2

# Get user input for the numbers and the operation

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

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

operation = input("Enter the operation to perform (+, -, \*, /): ")

# Perform the requested operation and print the result

if operation == '+':

result = add(num1, num2)

elif operation == '-':

result = subtract(num1, num2)

elif operation == '\*':

result = multiply(num1, num2)

elif operation == '/':

result = divide(num1, num2)

else:

print("Invalid operation")

exit()

print("{0} {1} {2} = {3}".format(num1, operation, num2, result))