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

# Function to find the GCD (Greatest Common Divisor)

def gcd(a, b):

while b:

a, b = b, a % b

return a

# Function to find the LCM (Least Common Multiple)

def lcm(a, b):

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

# Input two numbers

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

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

# Calculate and print the LCM

result = lcm(num1, num2)

print(f"The LCM of {num1} and {num2} is {result}")

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

# Function to find the GCD (Greatest Common Divisor)

def gcd(a, b):

while b:

a, b = b, a % b

return a

# Input two numbers

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

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

# Calculate and print the HCF

result = gcd(num1, num2)

print(f"The HCF of {num1} and {num2} is {result}")

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

# Input a decimal number

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

# Convert to binary, octal, and hexadecimal

binary\_num = bin(decimal\_num)

octal\_num = oct(decimal\_num)

hexadecimal\_num = hex(decimal\_num)

# Print the results

print(f"Binary: {binary\_num}")

print(f"Octal: {octal\_num}")

print(f"Hexadecimal: {hexadecimal\_num}")

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

# Input a character

char = input("Enter a character: ")

# Get the ASCII value

ascii\_value = ord(char)

# Print the ASCII value

print(f"The ASCII value of '{char}' is {ascii\_value}")

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

# Function to add two numbers

def add(x, y):

return x + y

# Function to subtract two numbers

def subtract(x, y):

return x - y

# Function to multiply two numbers

def multiply(x, y):

return x \* y

# Function to divide two numbers

def divide(x, y):

if y == 0:

return "Cannot divide by zero"

return x / y

# Input two numbers and the operation

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

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

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

# Perform the selected operation

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:

result = "Invalid operation"

# Print the result

print(f"Result: {result}")