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

# Function to find the LCM of two numbers

def find\_lcm(num1, num2):

# Find the greater number between num1 and num2

max\_num = max(num1, num2)

# Keep incrementing the greater number by 1 until both numbers are divisible by it

while (max\_num % num1 != 0) or (max\_num % num2 != 0):

max\_num += 1

# Return the LCM

return max\_num

# Take input from the user

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

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

# Find and print the LCM

lcm = find\_lcm(num1, num2)

print("The LCM of", num1, "and", num2, "is", lcm)

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

# Function to find the HCF of two numbers

def find\_hcf(num1, num2):

# Find the smaller number between num1 and num2

min\_num = min(num1, num2)

# Find the largest factor of the smaller number that divides both num1 and num2

hcf = 1

for i in range(1, min\_num+1):

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

hcf = i

# Return the HCF

return hcf

# Take input from the user

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

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

# Find and print the HCF

hcf = find\_hcf(num1, num2)

print("The HCF of", num1, "and", num2, "is", hcf)

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

# Take input from the user

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

# Convert to binary, octal, and hexadecimal using built-in functions

bin\_num = bin(dec\_num)

oct\_num = oct(dec\_num)

hex\_num = hex(dec\_num)

# Print the results

print("The binary representation of", dec\_num, "is", bin\_num)

print("The octal representation of", dec\_num, "is", oct\_num)

print("The hexadecimal representation of", dec\_num, "is", hex\_num)

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

# Take input from the user

char = input("Enter a character: ")

# Find the ASCII value using the ord() function

ascii\_val = ord(char)

# Print the result

print("The ASCII value of", char, "is", 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

# Take input from the user

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

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

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

# Perform the requested operation and print the result

if operator == '+':

result = add(num1, num2)

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

elif operator == '-':

result = subtract(num1, num2)

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

elif operator == '\*':

result = multiply(num1, num2)

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

elif operator == '/':

result = divide(num1, num2)

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

else:

print("Invalid operator.")