**1. Write a Python Program to Find LCM (Least Common Multiple)**

python

Copy code

# Function to find HCF (Greatest Common Divisor)

def hcf(x, y):

while y:

x, y = y, x % y

return x

# Function to find LCM (Least Common Multiple)

def lcm(x, y):

return (x \* y) // hcf(x, y)

# Input numbers

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

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

# Calculate and print LCM

result = lcm(num1, num2)

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

**2. Write a Python Program to Find HCF (Highest Common Factor)**

python

Copy code

# Function to find HCF (Greatest Common Divisor)

def hcf(x, y):

while y:

x, y = y, x % y

return x

# Input numbers

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

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

# Calculate and print HCF

result = hcf(num1, num2)

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

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

python

Copy code

# Function to convert decimal to binary, octal, and hexadecimal

def convert\_decimal(num):

return bin(num)[2:], oct(num)[2:], hex(num)[2:]

# Input decimal number

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

# Convert and print results

binary, octal, hexadecimal = convert\_decimal(decimal\_number)

print(f"Binary: {binary}")

print(f"Octal: {octal}")

print(f"Hexadecimal: {hexadecimal}")

**4. Write a Python Program To Find ASCII Value of a Character**

python

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# Input character

char = input("Enter a character: ")

# Check if the input is a single character

if len(char) == 1:

# Find and print ASCII value

ascii\_value = ord(char)

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

else:

print("Please enter a single character.")

**5. Write a Python Program to Make a Simple Calculator with 4 Basic Mathematical Operations**

python

Copy code

# Function to perform basic arithmetic operations

def calculator():

print("Select operation:")

print("1. Addition")

print("2. Subtraction")

print("3. Multiplication")

print("4. Division")

# Input choice

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

# Input numbers

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

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

# Perform operation based on choice

if choice == '1':

result = num1 + num2

print(f"The result of addition is {result}.")

elif choice == '2':

result = num1 - num2

print(f"The result of subtraction is {result}.")

elif choice == '3':

result = num1 \* num2

print(f"The result of multiplication is {result}.")

elif choice == '4':

if num2 != 0:

result = num1 / num2

print(f"The result of division is {result}.")

else:

print("Error: Division by zero is not allowed.")

else:

print("Invalid input. Please select a valid operation.")

# Call the calculator function

calculator()