Here are the Python programs for your requests:

**1. Find LCM (Least Common Multiple)**

# Function to find LCM

def lcm(x, y):

# Get the greater number

greater = max(x, y)

while True:

if greater % x == 0 and greater % y == 0:

return greater

greater += 1

# Input from user

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

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

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

**2. Find HCF (Highest Common Factor)**

# Function to find HCF

def hcf(x, y):

smaller = min(x, y)

for i in range(smaller, 0, -1):

if x % i == 0 and y % i == 0:

return i

# Input from user

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

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

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

**3. Convert Decimal to Binary, Octal, and Hexadecimal**

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

def convert\_decimal(num):

binary = bin(num)[2:]

octal = oct(num)[2:]

hexadecimal = hex(num)[2:]

return binary, octal, hexadecimal

# Input from user

num = int(input("Enter a decimal number: "))

binary, octal, hexadecimal = convert\_decimal(num)

print(f"Binary: {binary}, Octal: {octal}, Hexadecimal: {hexadecimal}")

**4. Find ASCII Value of a Character**

# Function to find ASCII value

def ascii\_value(char):

return ord(char)

# Input from user

char = input("Enter a character: ")

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

**5. Simple Calculator with 4 Basic Mathematical Operations**

# Function to perform basic operations

def calculator():

print("Select operation:")

print("1. Add")

print("2. Subtract")

print("3. Multiply")

print("4. Divide")

# Take user input for operation

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

# Take input for numbers

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

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

if choice == '1':

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

elif choice == '2':

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

elif choice == '3':

print(f"The result of {num1} \* {num2} is {num1 \* num2}")

elif choice == '4':

if num2 == 0:

print("Error! Division by zero.")

else:

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

else:

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

# Run the calculator

calculator()