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

**Sol.** def lcm(a,b):

    '''

    Function which return the LCM of two number.

    '''

    high = a if a > b else b

    while True:

        if (high%a==0) and (high%b==0):

            break

        else:

            high += 1

    return high

a = 22

b = 7

lcm(a, b)

154

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

**Sol.** def hcf(a, b):

    low = a if a < b else b

    for i in range(1, low+1):

        if (a%i==0) and (b%i==0):

            hcf = i

    return hcf

a = 53

b = 33

hcf(a, b)

1

a = 52

b = 24

hcf(a, b)

4

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

**Sol.** def conversion(num):

    print("Binary:      ", bin(num))

    print("Octal:       ", oct(num))

    print("Hexadecimal: ", hex(num))

conversion(7)

Binary: 0b111

Octal: 0o7

Hexadecimal: 0x7

conversion(369)

Binary: 0b101110001

Octal: 0o561

Hexadecimal: 0x171

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

**Sol.** try:

    char = input("Enter a character: ")

    ASCII = ord(char)

    print("ASCII value of {} is {}".format(char, ASCII))

except Exception as e:

    print(e)

Enter a character: A

ASCII value of A is 65

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

**Sol.** try:

    while True:

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

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

        print("\nFor addition:       +")

        print("For subtraction:    -")

        print("For multiplicaton:  \*")

        print("For division:       /")

        print("For Exit:            X")

        ch = input("\nEnter the choice for mathematical operations: ")

        if ch == '+':

            output = num1 + num2

        elif ch == '-':

            output = num1 - num2

        elif ch == '\*':

            output = num1 \* num2

        elif ch == '/':

            output = num1 / num2

        if ch == 'X' or ch == 'x':

            break

        print("\nResult: ", output)

except Exception as e:

    print(e)

Enter first number: 189

Enter second number: 9

For addition: +

For subtraction: -

For multiplicaton: \*

For division: /

For Exit: X

Enter the choice for mathematical operations: /

Result: 21.0

Enter first number: 123

Enter second number: 3

For addition: +

For subtraction: -

For multiplicaton: \*

For division: /

For Exit: X

Enter the choice for mathematical operations: \*

Result: 369

Enter first number: 12

...

For division: /

For Exit: X

Enter the choice for mathematical operations: X