1. Write a Python Program to Find LCM?

Ans. def findTheLcm(x\_term,y\_term):

    if x\_term > y\_term:

        greater = x\_term

    else:

        greater = x\_term

    while True:

        if((greater%x\_term == 0) and (greater%y\_term == 0)):

            lcm = greater

            break

        else:

            greater +=1

    print(f'The LCM of {x\_term},{y\_term} is {lcm}')

findTheLcm(3,6)

findTheLcm(5,2)

findTheLcm(5,100)

1. Write a Python Program to Find HCF?

Ans. def findTheHcf(x\_term,y\_term):

    if x\_term>y\_term:

        smaller = y\_term

    else:

        smaller = x\_term

    for ele in range(1,smaller+1):

        if((x\_term%ele == 0) and (y\_term%ele == 0)):

            hcf = ele

    print(f'The HCF of {x\_term},{y\_term} is {hcf}')

findTheHcf(6,12)

findTheHcf(2,3)

findTheHcf(10,23)

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

Ans. def DecimalToOther():

    num = int(input('Enter a Number: '))

    print(f'Binary Number -> {bin(num)}')

    print(f'Octal Number -> {oct(num)}')

    print(f'Hexadecimal Number -> {hex(num)}')

DecimalToOther()

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

Ans. def charToAscii():

    char = input('Enter a Character: ')

    if len(char) > 1:

        print('Please Enter a Single Character')

    else:

        print(f'Ascii Character of {char} is {ord(char)}')

charToAscii()

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

Ans. import operator

ops = { "+": operator.add, "-": operator.sub, "\*":operator.mul, "/":operator.truediv }

print('Select a Arithmetic Operation: \

        \n1.Addition(+)\

        \n2.Division(-)\

        \n2.Multiplication(\*)\

        \n4.Division(/)\

        \n3.Stop(0)\n')

while True:

    operator = input('Enter a arithmetic operation -> ')

    if operator == '0':

        print("Program Stopped successfully")

        break

    elif operator not in ['+','-','\*','/']:

        print("Please enter a valid operator")

    else:

        num\_1 = int(input('\nEnter 1st Number: '))

        num\_2 = int(input('Enter 2nd Number: '))

        print(f'{num\_1}{operator}{num\_2}={ops[operator](num\_1,num\_2)}\n')