**Programming Assignment 5**

Q.1) Write a Python Program to Find LCM?

Ans.)

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

Q.2) Write a Python Program to Find HCF?

Ans.)

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

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

Ans.)

def conversion(num):

    print("Binary:      ", bin(num))

    print("Octal:       ", oct(num))

    print("Hexadecimal: ", hex(num))

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

Ans.)

try:

    char = input("Enter a character: ")

    ASCII = ord(char)

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

except Exception as e:

    print(e)

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

Ans.)

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)