**PROGRAMMING ASSIGNMENT 5 PYTHON**

1. Write a Python Program to Find LCM?

# Python program  to calculate LCM

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

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

def lcm(a, b):

    # selecting the greater number

    if a > b:

        greater = a

    else:

        greater = b

    while(True):

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

            lcm = greater

            break

        greater = greater+1

    return lcm

print(lcm(num1,num2))

**Enter first number: 12**

**Enter second number: 4**

**12**

1. Write a Python Program to Find HCF

# a Python Program to Find HCF

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

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

def hcf(a,b):

    if a > b:

        smaller = a

    else:

        smaller = b

    for i in range(1,smaller+1):

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

            hcf = i

    return hcf

print(hcf(num1,num2))

**Enter first number: 8**

**Enter second number: 12**

**4**

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

# a Python Program to Convert Decimal to Binary, Octal and Hexadecimal

dec = int(input("Enter an integer: "))

print("The decimal value of",dec, "is:")

print(bin(dec),"in binary.")

print(oct(dec),"in octal.")

print(hex(dec),"in hexadecimal.")

**Enter an integer: 319**

**The decimal value of 319 is:**

**0b100111111 in binary.**

**0o477 in octal.**

**0x13f in hexadecimal.**

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

# a Python Program To Find ASCII value of a character

chr = input("Enter the value of character:")

print("The ASCII value of " +chr+  " is ", ord(chr))

**Enter the value of character:a**

**The ASCII value of a is 97**

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

# a Python Program to Make a Simple Calculator with 4 basic mathematical operations

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

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

def add (a,b):

    return a + b

def subtract (a,b):

    return a - b

def multiply (a,b):

    return a \* b

def divide (a,b):

    return a / b

print ("Please select the operation.")

print ("a. Add")

print ("b. Subtract")

print ("c. Multiply")

print ("d. Divide")

choice = input("Please enter choice (a/ b/ c/ d): ")

if choice == 'a':

   print (num1, " + ", num2, " = ", add(num1, num2))

elif choice == 'b':

   print (num1, " - ", num2, " = ", subtract(num1, num2))

elif choice == 'c':

   print (num1, " \* ", num2, " = ", multiply(num1, num2))

elif choice == 'd':

   print (num1, " / ", num2, " = ", divide(num1, num2))

else:

   print ("This is an invalid input")

**Enter first number: 6**

**Enter second number: 3**

**Please select the operation.**

**a. Add**

**b. Subtract**

**c. Multiply**

**d. Divide**

**Please enter choice (a/ b/ c/ d): a**

**6 + 3 = 9**