**Programming\_Assignment-5**

1. Write a Python Program to Find LCM?

def compute\_lcm(x, y):

# choose the greater number

if x > y:

greater = x

else:

greater = y

while(True):

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

lcm = greater

break

greater += 1

return lcm

num1 = 54

num2 = 24

print("The L.C.M. is", compute\_lcm(num1, num2))

1. Write a Python Program to Find HCF?

# defining a function to calculate HCF

def calculate\_hcf(x, y):

# selecting the smaller number

if x > y:

smaller = y

else:

smaller = x

for i in range(1,smaller + 1):

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

hcf = i

return hcf

# taking input from users

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

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

# printing the result for the users

print("The H.C.F. of", num1,"and", num2,"is", calculate\_hcf(num1, num2))

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

dec = 344

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

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

octal\_num = 0o06374

print(hex(octal\_num), "in hexadecimal.")

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

c = 'g'

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

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

def add(x, y):

return x + y

# This function subtracts two numbers

def subtract(x, y):

return x - y

# This function multiplies two numbers

def multiply(x, y):

return x \* y

# This function divides two numbers

def divide(x, y):

return x / y

print("Select operation.")

print("1.Add")

print("2.Subtract")

print("3.Multiply")

print("4.Divide")

while True:

# take input from the user

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

# check if choice is one of the four options

if choice in ('1', '2', '3', '4'):

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

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

if choice == '1':

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

elif choice == '2':

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

elif choice == '3':

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

elif choice == '4':

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

# check if user wants another calculation

# break the while loop if answer is no

next\_calculation = input("Let's do next calculation? (yes/no): ")

if next\_calculation == "no":

break

else:

print("Invalid Input")