1. Write a Python Program to Find LCM?

def gcd(a,b):

if b==0:

return a

else:

return gcd(b,a%b)

def lcm(a,b):

return ((a\*b) // gcd(a,b))

a=int(input("Enter First number"))

b=int(input("Enter Second number"))

print(lcm(a,b))

1. Write a Python Program to Find HCF?

def hcf(a,b):

if b==0:

return a

else:

return hcf(b,a%b)

a=int(input("Enter first number "))

b=int(input("Enter Second mumber "))

print(f"HCF of {a} and {b} is {hcf(a,b)}")

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

def binary(decimal):

temp=decimal

sbinary=""

while temp>0:

sbinary=str(temp%2)+sbinary

temp//=2

print(f"Binary of {decimal} is {sbinary}")

def octal(decimal):

soctal=""

temp=decimal

while temp>0:

soctal=str(temp%8)+soctal

temp//=8

print(f"Octal of {decimal} is {soctal}")

def hexadecimal(decimal):

shex=""

temp=decimal

while temp>0:

remainder=temp%16

if remainder<10:

shex=str(remainder)+shex

else:

shex=chr(ord('A')+remainder-10)+shex

temp//=16

print(f"Hexadecimal of {decimal} is {shex}")

binary(2)

octal(95)

hexadecimal(15)

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

char=input("Enter a character ")

ascii\_value=ord(char)

print(f"ASCII value of {char} is {ascii\_value}")

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

def add(num1,num2):

return num1+num2

def sub(num1,num2):

return num1-num2

def multiply(num1,num2):

return num1\*num2

def divison(num1,num2):

return num1/num2

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

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

print("\n")

print("Select operation:")

print("1. Add")

print("2. Subtract")

print("3. Multiply")

print("4. Divide")

print("\n")

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

if choice==1:

result=add(num1,num2)

print(f"Addition of {num1} and {num2} is {result}")

elif choice==2:

result=sub(num1,num2)

print(f"Addition of {num1} and {num2} is {result}")

elif choice==3:

result=multiply(num1,num2)

print(f"Addition of {num1} and {num2} is {result}")

elif choice==4:

result=divison(num1,num2)

print(f"Addition of {num1} and {num2} is {result}")

else:

print("Invalid choice")