1. Write a Python Program to Check if a Number is Positive, Negative or Zero?

x = int(input("enter a number for check : "))

if x < 0:

print("this is negative number", x)

elif x==0:

print("x is qual to zero:", x)

elif x > 0:

print("this is positive number", x)

1. Write a Python Program to Check if a Number is Odd or Even?

x = int(input("enter a number for odd and even : "))

if x%2==0:

print("this is even number")

else:

print("this is odd number")

1. Write a Python Program to Check Leap Year?

x = int(input("enter a number for check leap year : "))

if x%4==0:

print("this is leap year")

else:

print("this year is not leap year")

1. Write a Python Program to Check Prime Number?

x = int(input("entera value for check it is prime or not"))

if x>1:

for i in range(2,x):

if x%i==0:

print(x, "this is not a prime number")

print(i,"times",x//i,"is", x)

break

else:

print(x, "is a prime number")

else:

print(x, "not a prime number")

1. Write a Python Program to Print all Prime Numbers in an Interval of 1-10000?

lower=int(input("enter a lower number: "))

upper=int(input("enter a upper number: "))

for x in range(lower, upper+1):

if x >1:

for i in range(2, x):

if x%i==0:

break

else:

print(x)