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

a = int(input("Enter a num:" ))

if a == 0:

print('no is 0')

elif a < 0:

print('no is negative')

else:

print('no is positive')

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

num = int(input("Enter a num:" ))

if num % 2 == 0:

print('no is even')

else:

print('no is odd')

1. Write a Python Program to Check Leap Year?

year = int(input("Enter a year: "))

if (year % 4) == 0:

if (year % 100) == 0:

if (year % 400) == 0:

print("{0} is a leap year".format(year))

else:

print("{0} is not a leap year".format(year))

else:

print("{0} is a leap year".format(year))

else:

print("{0} is not a leap year".format(year))

1. Write a Python Program to Check Prime Number?

num = int(input('Enter the no: '))

for i in range(2, num):

if num % i ==0:

print('not prime', i)

break

else:

print('no is a prime')

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

for num in range(1,10000):

if num >1:

for i in range(2,num):

if num % i ==0:

break

else:

print(num)