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

Ans: # Check a num is +ve, -ve or zero

n=int(input("enter a num"))

if n>0:

print("positive")

elif n<0:

print("negative")

else:

print("zero")

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

Ans: # Check a num is even or odd

n=int(input("enter a num"))

if n%2==0:

print("even")

else:

print("odd")

1. Write a Python Program to Check Leap Year?

Ans: # Check an year is leap or not

n=int(input("enter year"))

if n%4==0:

if n%100==0:

if n%400==0:

print("leap")

else:

print("not leap")

else:

print("Not leap")

else:

print("Not Leap")

1. Write a Python Program to Check Prime Number?

Ans: # Check a num is prime or not

i=1

n=int(input("enter a num"))

while i!=n:

if i==1:

i=i+1

continue

elif n%i==0:

print("not prime")

break

else:

print("prime")

break

i=i+1

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

Ans:

for num in range(1, 10000):

prime = True

for i in range(2,num):

if (num%i==0):

prime = False

if prime:

print (num)