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

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

if number>0:

print("Positive")

elif number<0:

print("Negative")

else:

print("Zero")

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

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

if number%2==0:

print("Even")

else:

print("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("Leap Year!!")

else:

print("Not a Leap year!!")

else:

print("Not a Leap year!!")

else:

print("Not a Leap Year!!")

1. Write a Python Program to Check Prime Number?

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

if n>1:

for i in range(2,5):

if n%i==0:

print("not a prime number")

break

else:

print("prime number")

break

else:

print("Not a valid input.Enter number that is greater than 1!!")

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

for Prime in range(2, 10001):

isPrime = True

for num in range(2, Prime):

if Prime % num == 0:

isPrime = False

if isPrime:

print(Prime)