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

def checkNumber(n):  
 if n < 0:  
 return "Negative"  
 elif n == 0:  
 return "Zero"  
 else:  
 return "Positive"

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

def Check\_odd\_even(n):  
 if n%2 ==0:  
 return "even"  
 else:  
 return "odd"

1. Write a Python Program to Check Leap Year?

def check\_year(year):  
 if year/4 ==0 and year/400==0 or year/100 !=0:  
 return "YES"

1. Write a Python Program to Check Prime Number?

def check\_prime(n):  
 if n ==2:  
 return "YES"  
 if n > 2 and n/2 == 0:  
 return "No"  
 elif n/2 !=0:  
 for i in range(3, (n // 2) + 1, 2):  
 if n % i == 0:  
 return "No"  
  
 return "YES"

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

def print\_primes(l,h):  
 for num in range(l,h+1):  
 # define a flag variable  
 flag = True  
  
 # prime numbers are greater than 1  
 if num > 1:  
 # check for factors  
 for i in range(2, (num // 2) + 1):  
 if (num % i) == 0:  
 # if factor is found, set flag to True means number is not prime  
 flag = False  
 continue  
  
 # check if flag is True  
 if flag:  
 print(num, end=' ')