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

***num=float(input("enter a number:"))***

***if num>0:***

***print("positive number")***

***elif num==0:***

***print("zero")***

***else:***

***print("negative number")***

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

***num=int(input("enter a number"))***

***if(num%2)==0:***

***print("{0} is even number".format(num))***

***else:***

***print("{0} is odd number".format(num))***

1. ***Write a Python Program to Check Leap Year?***

***yr=int(input("enter a year"))***

***if yr%100==0:***

***if yr%400==0:***

***print('{} is a leap year'.format(yr))***

***elif yr%4==0:***

***print('{} is a leap year'.format(yr))***

***else:***

***print('{} is not a leap year'.format(yr))***

1. ***Write a Python Program to Check Prime Number?***

***num=int(input("enter a number"))***

***if num>1:***

***for i in range(2,num):***

***if(num%i)==0:***

***print(num,"is not a prime number")***

***print(i,"times",num//i,"is",num)***

***break***

***else:***

***print(num,"is a prime number")***

***else:***

***print(num,"is not a prime number")***

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

***lower=int(input("enter low range:"))***

***upper=int(input("enter upper range:"))***

***for num in range(lower,upper+1):***

***for i in range(2,num):***

***if(num%i)==0:***

***break***

***else:***

***print(num)***