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

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

*if a==0:*

*print("The number is zero")*

*elif a>0:*

*print("The number is positive.")*

*else:*

*print("The number is negative.")*

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

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

*if a%2==0:*

*print("The number is Even")*

*else:*

*print("The number is Odd.")*

1. Write a Python Program to Check Leap Year?

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

*if a%4==0:*

*if a%100==0:*

*if a%400==0:*

*print(a,"is a leap year")*

*else:*

*print(a,"is not a leap year.")*

*else:*

*print(a,"is a leap year.")*

*else:*

*print(a,"is not a leap year")*

1. Write a Python Program to Check Prime Number?

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

*if a>1:*

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

*if a%i==0:*

*print("It is not prime number.")*

*break*

*else:*

*print("It is a prime number")*

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

*l=[]*

*for a in range(2,10001):*

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

*if a%i==0:*

*break*

*else:*

*l.append(a)*

*print(l)*