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

```
def num_check(num):
    if num > 0:
        print("Positive number")
    elif num = 0:
        print("Zero")
    else:
        print("Negative number")
    number = float(input("Enter a number: "))
    num_check(number)
Enter a number: 5
Positive number
```

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

Ans:

3. Write a Python Program to Check Leap Year?

Ans:

4. Write a Python Program to Check Prime Number?

## Ans:

```
def prime_check(num):
    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")
        number = int(input("Enter a number: "))
        prime_check(number)

Enter a number: 21
21 is not a prime number
3 times 7 is 21
```

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

## Ans: