

**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(a," is a negetive number")
elif a==0:
    print(a," is a Zero")
else:
    print(a," is a Positive Number")
```

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

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

if a%2==0:
    print("Even Number")
else:
    print("Odd Number")
```

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

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

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

flag=False;

if a>1:
    for i in range(2,a):
        if a%i==0:
            flag=True;
            break;

if flag:
    print(a," is not a prime number")
else:
    print(a," is a prime numebr")
```

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

```
r1=int(input("Enter the starting range "))
```

```
r2=int(input("Enter the ending range "))
```

```
for num in range(r1,r2+1):
```

```
    if num >1:
```

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

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

```
                break;
```

```
        else:
```

```
            print(num)
```