Assignment - 3

1A.

```python
num = int(input('Enter a number: '))
if num > 0:
    print('Number is positive')
elif num < 0:
    print('Number is negative')
else:
    print('Number is 0')
```

2A.

```python
num = int(input('Enter a number: '))
if num%2 == 0:
    print('Number is even')
else:
    print('Number is odd')
```

3A.

```python
num = int(input('Enter the year: '))
if num%4 == 0:
    print('It is a leap year')
else:
    print('It is not a leap year')
```

4A.

```python
num = int(input('Enter a number: '))
count=0
```

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

    rem = num%i


    if rem == 0:

        count=count+1

        #print(rem,count)


if count==0:

    print('Number is prime!')
else:

    print('Number is not prime')
```
5A.