

Python Basic Assignment 3(Practical)

1:

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

```
if num > 0:
```

```
    print('Number is positive')
```

```
elif num < 0:
```

```
    print('Number is negative')
```

```
else:
```

```
    print('Number is zero')
```

2:

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

```
if num%2==0:
```

```
    print('Number is even')
```

```
else:
```

```
    print('Number is odd')
```

3:

```
year = int(input('Enter a year: '))
```

```
if ((year%4==0) and (year%100!=0)) or ((year%4==0) and (year%100==0) and (year%400==0)):
```

```
    print('It is a leap year')
```

```
else:
```

```
    print('It is not a leap year')
```

```
4:
```

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

```
if num > 1:
```

```
    for i in range(2,num-1):
```

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

```
            print(num,'is not a prime number')
```

```
            break
```

```
    else:
```

```
        print(num,'is a prime number')
```

```
else:
```

```
    print('Enter number greater than 1')
```

```
5:
```

```
num = 2
```

```
ss = []  
while num <= 10000:  
  
    for i in range(2,num-1):  
        if num%i==0:  
            break  
    else:  
        ss.append(num)  
  
    num = num + 1  
  
print(ss,end=' ')
```