

In [11]:

```
1 n=int(input())
2 if n>0:
3     print("it is postive number",n)
4 elif n<0:
5     print("it is negative number",n)
6 else:
7     print("zero number",n)
```

0
zero number 0

In [15]:

```
1 n=int(input())
2 if n%2==0:
3     print("even number",n)
4 else:
5     print("odd number",n)
```

8
even number 8

In [18]:

```
1 n=int(input())
2 if n%4==0:
3     print("leap year",n)
4 else:
5     print("not leap year",n)
```

2004
leap year 2004

In [5]:

```
1
2 n=int(input())
3 for i in range(1,n+1):
4     count=0
5     if n%i==0:
6         count+=1
7 if count==2:
8     print("prime number")
9 else:
10    print("compisite number")
```

89
compisite number

In [7]:

```
1
2 for n in range(1,10001):
3     count=0
4     for i in range(1,n+1):
5         if n%i==0:
6             count+=1
7     if count==2:
8         print("prime number",n)
9
10
```

prime number 2
prime number 3
prime number 5
prime number 7
prime number 11
prime number 13
prime number 17
prime number 19
prime number 23
prime number 29
prime number 31
prime number 37
prime number 41
prime number 43
prime number 47
prime number 53
prime number 59
prime number 61
prime number 67
prime number 71

In []:

```
1
```

In []:

1