elif

```
Syntax:
        if condition-1:
            //stmnt-1
        elif condition-2:
            //stmnt-2
        elif condition-3:
            //stmnt-3
            |       |
            |       |
        elif condition-n:
            //stmnt-n
        else:
            //stmnt
```

```
Statement:1

Input: 24
Output: Given number is 24 and it is divisible by 2 and 3
Input: 20
Output: Given number is 20 divisible by 5
Input: 15
Ouput: Given number is 15 and it is divisible by 3 and 5
Input: 8
Output: Given number is 8 and it is Even
Input: 13
Ouput: Given number is 13 and it is Odd
```

In [17]:

```
n = int(input())
if n%3==0 and n%5==0:
    print("Given number is {} and it is divisible by 3 and 5".format(n))
elif n%5==0:
    print("Given number is {} divisible by 5".format(n))
elif n%2==0 and n%3==0:
    print("Given number is {} and it is divisible by 2 and 3".format(n))
elif n%2==0:
    print("Given number is {} and it is Even".format(n))
else:
    print("Given number is {} and it is Odd".format(n))
```

```
36
Given number is 36 and it is divisible by 2 and 3
```

Iterations | Repitition | Loops | Control Statements:

```
-> Number of times statement has to be executed or not?
-> number of statements can be reduces

-> for -> Particular range [known range values]
    Syntax:
            for iter_varaible_name in range():
                //stmnts
    -> range()
        => range(3) -> It starts from 0 by default and ends with n-1
            with +1 increment value
        Ex: 0 1 2
        => range(3,7) -> It starts from 3 and ends from n-1 with
            +1 increment value
        Ex: 3 4 5 6
        => range(0,11,5) -> It starts from 0 and ends from n-1
            with step of 5
        Ex:0 5 10
-> while -> It acts like for and infinity loop
        1.Particular range [known range] -> condition
                                            is known to user
        2.Infinity Loop [Unknown range]
     Syntax:
             initialize
             while condition:
                 //stmnt
                 incr/decr
```

In [34]:

```
p = input()
e = input()
s = input()
for n in range(int(p),int(e)+1,int(s)):
    if n%3==0 and n%5==0:
        print("Given number is {} and it is divisible by 3 and 5".format(n),end="\n")
    elif n%5==0:
        print("Given number is {} divisible by 5".format(n),end="\n")
    elif n%2==0 and n%3==0:
        print("Given number is {} and it is divisible by 2 and 3".format(n),end="\n")
    elif n%2==0:
        print("Given number is {} and it is Even".format(n),end="\n")
    else:
        print("Given number is {} and it is Odd".format(n),end="\n")
```

```
2
10
3
Given number is 2 and it is Even
Given number is 5 divisible by 5
Given number is 8 and it is Even
```