

Condition_looping

August 19, 2022

```
[ ]: #Conditioning and Loop
```

```
[11]: a=15
      if(a==10):
          print('a=',a)
      elif((a>8)and(a<15)):
          print('a is between8 to 10')
      else:
          print('a!=10 and not in range of 8 to 15')
      print('Program Dying')
```

a!=10 and not in range of 8 to 15
Program Dying

```
[13]: L=[1,2,3,'Hi']
      for l in L:
          print(l)
      print('program dying')
      type(l)
```

1
2
3
Hi
program dying

```
[13]: str
```

```
[18]: L=[1,2,3,'Hi']
      for i in range(4):
          if(i==0):
              L[i]='changed'
          print(L)
      print(L)
      print(type(L))
```

['changed', 2, 3, 'Hi']
['changed', 2, 3, 'Hi']

```
['changed', 2, 3, 'Hi']  
['changed', 2, 3, 'Hi']  
['changed', 2, 3, 'Hi']  
<class 'list'>
```

```
[22]: l=[1,2,'csk',5]  
      for i in l:  
          print(i)  
      print('Prog_Done')
```

```
1  
2  
csk  
5  
Prog_Done
```

```
[25]: List1=[]  
      even_count=0  
      odd_count=0  
      for i in range(0,101,1):  
          if(i%2==0):  
              List1.append(i)  
              even_count+=1  
          else:  
              odd_count+=1  
      print(List1)  
      print(even_count)  
      print(odd_count)
```

```
[0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40,  
42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80,  
82, 84, 86, 88, 90, 92, 94, 96, 98, 100]  
51  
50
```

```
[27]: List1=[]  
      even_count=0  
      odd_count=0  
      i=0  
      while(i<101):  
          if(i%2==0):  
              List1.append(i)  
              even_count+=1  
          else:  
              odd_count+=1  
          i=i+1
```

```
print(List1)
print(even_count)
print(odd_count)
```

```
[0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40,
42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80,
82, 84, 86, 88, 90, 92, 94, 96, 98, 100]
51
50
```

```
[20]: L=[1,2,3,'Hi']
i=0
while(i<4):
    if(i==0):
        L[i]='changed'
    print(L)
    i+=1
print(L)
print(type(L))
```

```
['changed', 2, 3, 'Hi']
['changed', 2, 3, 'Hi']
['changed', 2, 3, 'Hi']
['changed', 2, 3, 'Hi']
['changed', 2, 3, 'Hi']
<class 'list'>
```

```
[3]: def Mul(a,b):
    c=a*b
    return c
def sub(a,b):
    c=a-b
    return c
d=Mul(2,4)
e=sub(d,9)
print(d)
print(e)
```

```
8
-1
```