Assignment 3

Dry run.

1→
```
i = 1              i <3 → True
j = 1                 j <= 2    True.
                      print        1  1      → j++
goes for  j = 2
                      Print    1  1  1 2.
          So  on.
          i = 2
```

output
```
1 1   1 2
2 1   2 2
3 1   3 2
```

Q2→   Total = 0
```
i = 5
i > 0          True.
   Total = Total + i        Total = 5
   if i == 3   continue → False
      Total =        4    how..  i → 4
         Total = 5 + 4      → 9   → 3
                   9 + 3  → 12    2
                   12 + 2 = 14    → 1
      Total = 15
```

2 Total = 0

i	i>0	Total = T+i	1--
5	True	0+5 = 5	
		i==3 Pass. false	4
4	True	5+4 = 8	
		i=3 f = 8-1 →7	
3	True	7+3 = 10	
2	True	10+2 = 12	
		i==3	11
1		11+1 = 12	
		i=3	11

final we get 11

3. count = 0
while (0<5) →True
count ++ → 1

print 0 1 2
0 1 2 3

4 →

i = 1   i++ → i=2
2<5   True

print 1 2 3 4

5 →

num = 1

i	i<=4	i%2=0	else	num
1	T	num=num+i	num-i	1-1 = 0
2	T	2%2=0		
		0+2 = 2		
3	T	2+3	2-3 -1	
4	T	4+(-1)		
		3		

out put 3

6 →

$x = 5$ $y = 5$

$$y = \frac{++x}{6} - \frac{x--}{6} + \frac{--x}{4} + \frac{x++^5}{4}$$

$$= \frac{0}{6} \quad + \frac{4+4}{4}$$

$$= 8$$

7 →   a = 10
       b = 5

result = ++a * b-- - --a + b++;
         11 * 5 - 10 + 4

         55 - 10 + 4
         45 + 4
         = 49

8 →   count = 0

i	i<4	count + i++ - ++i	count
0	T	0 + 0 - 2	-2
		0 - 2	
1	T	-2 + 1 - 3	-4
		-1 - 3	
2	T	-4 + 2 - 4	-6
		-2 - 4	
3	T	-6 + 3 + 5	-8
		-3 - 5	