```
sum = 0        [0, ------ 9]
for i in range(10):
    sum = sum + 1
print(sum)
```

i	sum
	0
0	$0+1 \rightarrow 1$
1	2
2	3
9	10

What will the above code print?

A. 0
B. 9
C. 10
D. 45

Answer: C
The loop will have 10 iterations, and each iteration will increment sum by 1 for a total of 10

```
sum = 0        (0, .... 9]
for i in range(10):
    sum = sum + i
print(sum)
```

What will the above code print?

A. 0
B. 9
C. 10
D. 45

i	sum
	0
0	0
1	1
2	3
3	6
4	10
5	:
6	:
7	
8	
9	45

Answer: D
The loop will have 10 iterations, and each iteration will increment sum by i the loop variable, that is by the values in the sequence generated by range(10), e.g., sum = 0 + 1 + 2 + 3 ... + 9

```python
sum = 0
for i in range(5):
    for j in range(5):
        sum = sum + i
print(sum)
```

What will the above code print?

A. 10
B. 50
C. 225
D. 500

i	j	sum
		0
0	0	0
0	1	
0	2	
0	3	
0	4	0
1	0	1
1	1	2

Answer: B
Each iteration of the outer loop performs 5 iterations of the inner loop. Thus the computation performed is: sum = 0 + 0 + 0 + 0 + 0 + 1 + 1 + 1 + 1 + 1 ... 4 + 4 + 4 + 4 + 4