1. What will this code print?

```python
sum=0
for i in range(10):
    sum = sum + 1
print(sum)
```

- A 0
- B 9
- C 10
- D 45
- E I don't know

2. What will this code print?

```python
sum=0
for i in range(10):
    sum = sum + i
print(sum)
```

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`

- A 0
- B 9
- C 10
- D 45
- E I don't know.

3. What will this code print?

```python
sum = 0
for i in range(10):
    sum = sum + i
print(sum)
```

- A 0
- B 9
- C 10
- D 45
- E I don't know.

4. What will this code print?

```python
sum = 0
for i in range(10):
    sum = sum + i
print(sum)
```

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

- A 0
- B 9
- C 10
- D 45
- E I don't know.
5. What will this code print?

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

A. 10  
B. 50  
C. 225  
D. 500  
E. I don't know

6. What will this code print?

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

Each iteration of the outer loop performs 5 iterations of the inner loop. Thus the computation performed is:

$$sum = 0 + 0 + 0 + 0 + 0 + 1 + 1 + 1 + 1 + 1 \ldots$$

$$4 + 4 + 4 + 4 + 4$$

A. 10  
B. 50  
C. 225  
D. 500  
E. I don't know