Topic 02 Quiz Practice

CSCI040: ~~Computing for the Web~~ Introduction to Hacking

NOTE:

1. The quiz is designed to test your ability to read python code and evaluate it manually.

2. There will be 4 problems Each problem will follow the form of one of the problems below. I will change the numbers/operators to ensure that you understand how to walk through evaluating python code manually.

3. Study hard and do well on this quiz. All future material in class assumes that you can complete problems similar to these perfectly!

Problem 1. What is the output of the following code:

```
x = 2 // 3
y = x * 4
z = y + 5
print("z=", z)
```

Problem 2. What is the output of the following code:

```
x = 3 // 2
y = x % 4
z = y - 5
print("z=", z)
```

Problem 3. What is the output of the following code:

```
print(2 * 2 ** 2 + 3 * 4 % 2)
```

Problem 4. What is the output of the following code:

```
print(2 ** 2 * 2 // 3 - 4 + 2)
```

Problem 5. What is the output of the following code:

```
x = 4%5
y = 4//5
if x == 1 or y == 1:
    result = 0
else:
    result = 1
print('result=', result)
```

Problem 6. What is the output of the following code:

```
x = 4-5
y = 5-4
if x == 1 and y == 1:
    result = 0
else:
    result = 1
print('result=', result)
```

Problem 7. What is the output of the following code:

```
if '':
    result = 0
else:
    result = 1
print('result=', result)
```

Problem 8. What is the output of the following code:

```
if 1.0:
    result = 0
else:
    result = 1
print('result=', result)
```

Problem 9. What is the output of the following code:

```
i = 0
total = 0
while i < 5:
    total = total + i
    i += 1
print('total=', total)
```

Problem 10. What is the output of the following code:

```
i = 3
total = 0
while i < 8:
    total = total * i
    i += 1
print('total=', total)
```

Problem 11. What is the output of the following code:

```
i = 34567
total = 0
while i > 0:
    total += 1
    i //= 10
print('total=', total)
```

Problem 12. What is the output of the following code:

```
i = 123
total = 0
while i:
    total += 1
    i //= 10
print('total=', total)
```

Problem 13. What is the output of the following code:

```
total = 0
for i in range(5):
    total = total - 1
print('total=', total)
```

Problem 14. What is the output of the following code:

```
total = 0
for i in range(3, 5):
    total = total + 1
print('total=', total)
```

Problem 15. What is the output of the following code:

```
total = 42
for i in range(10, 15, 1):
    total %= i
print("total=", total)
```

Problem 16. What is the output of the following code:

```
total = 0
for i in range(10, 0, -2):
    total -= i
print("total=", total)
```

Problem 17. What is the output of the following code:

```
result = 1
for i in range(5):
    if i<3:
        result *= 1
    else:
        result *= (-1)
print('result=', result)
```

Problem 18. What is the output of the following code:

```
result = 1
for i in range(3, 5):
    if i<3:
        result += 1
    else:
        result -= 1
print('result=', result)
```

Problem 19. What is the output of the following code:

```
result = 1
for i in range(5):
    if i <= 3:
        result += i
    else:
        result += 1
print('result=', result)
```

Problem 20. What is the output of the following code:

```
result = 1
for i in range(5):
    if i > 3:
        result += i
    else:
        result += 1
print('result=', result)
```

Problem 21. What is the output of the following code:

```
total = 0
for i in range(10, 20, 5):
    if i%2 == 1 or i<15:
        total += i
print("total=", total)
```

Problem 22. What is the output of the following code:

```
total = 0
for i in range(0, 10, 3):
    if i%2 == 0 or i<5:
        total += i
print("total=", total)
```