



Python Programming

Assignment 1 September 29, 2022

Please submit the copy version to L4-213 next class (2022.10.8, SAT). (100 points)

1. What is the output of the following code? (6 points)

```
x = 100
y = 50
print(x and y)
```

A. True B. 100 C. False D. 50

2. Which of the following operators has the highest precedence? (6 points)

A. not B. C. * D. +

3. What is the output of the following code? (6 points)

```
x = 6
y = 2
print(x ** y)
print(x // y)
```

4. What is the output of `print(2**3**2)` (6 points)

5. What is the output of the expression `print(-18//4)` (6 points)

6. **4** is 100 in binary and **11** is 1011. What is the output of the following bitwise operators? (6 points)

```
a = 4
b = 11
print(a | b)
print(a >> 2)
```

7. What is the output of the following list operation? (8 points)

```
simple_list = [10, 20, 30, 40, 50]
print(sample_list[-2])
print(sample_list[-4:-1])
```

8. What is the output of the following code? (8 points)

```
l = ["Python", [4, 8, 12, 16]]
print(l[0][1])
print(l[1][3])
```

9. What is the output of the following code? (6 points)

```
print(int(2.999))
```

10. What is the type of the following variable x ? (6 points)

```
x = -5j
```

A. int B. complex C. real D. imaginary

11. In Python3, the integer ranges from **-2,147,483,648** to **+2,147,483,647**. (8 points)

A. True B. False

12. What is the output of the following math function? (6 points)

```
import math
print(math.ceil(252.4))
print(math.floor(252.4))
```

13. What is the result of the following code ? (8 points)

```
print(type([]) is list)
```

A. True B. False

14. Select all the right ways to create a string literal *Ault'Kelly*. (8 points)

A. `s = 'Ault\'Kelly'`

B. `s = 'Ault\'Kelly'`

C. `s = """Ault'Kelly"""`

15. What is the output of the following code? (6 points)

```
print(bool(0), bool(3.14159), bool(-3), bool(1.0+1j))
```

A. False True False True

B. True True False True

C. False True True True