

Name: \_\_\_\_\_ ID: \_\_\_\_\_

## Introduction to Computer and Programming (Python)

### Mini-quiz #1

#### 1. Format

Write the output of each statement

- |   |       |
|---|-------|
| 1.1) <code>print(format(57.467657, "9.3f"))</code>                | _____ |
| 1.2) <code>print(format(57.4, ".2f"))</code>                      | _____ |
| 1.3) <code>print(format(5, "b"))</code>                           | _____ |
| 1.4) <code>print(format(0.45467, "9.3%"))</code>                  | _____ |
| 1.5) <code>print(format(123, "&lt;5d"), format(1, "4.3f"))</code> | _____ |
| 1.6) <code>print(format(50000, "2d"))</code>                      | _____ |
| 1.7) <code>print(format("four", "&gt;5s"))</code>                 | _____ |

#### 2. Selection(Boolean and if-else)

2.1 What does the following expression return? ( True or False )

- |   |       |
|---|-------|
| 2.1.1) <code>not True is False and not False is not True</code> | _____ |
| 2.1.2) <code>True or False and False or False</code>            | _____ |
| 2.1.3) <code>type(int) == int</code>                            | _____ |
| 2.1.4) <code>type(1.0) == float</code>                          | _____ |
| 2.1.5) <code>bool(-1) is False</code>                           | _____ |
| 2.1.1) <code>bool('False')</code>                               | _____ |

hint 1 : 'is' keyword is equivalent to == symbol

hint 2: there is no Syntax error in the source code

hint 3 : for int or float to boolean type conversion, 0 will be converted to False, the rest will be True.

hint 4 : for string to boolean type conversion, empty string will be converted to False, the rest will be True

## 2.2 Write the output of the source code execution

```
a = 1
b = 2.0
if a % 2 is not 0 :
    print("ES ", end = "")
    if bool(a) : #True
        print("yreve ot", end = "")
        a + 1
    if not bool(a) :
        print("uoy rof", end = "")
    elif False :
        print("", end = "")
    else:
        print(" kcul fo ", end = "")
a = 'a'
if type(a) == chr :
    print(" lla'y ", end = "")
    if True > False :
        print("tseb eht ", end = "")
    elif type(b) == float :
        print("lufrednow tsom eht", end = "")
elif type(a) is not type(b) :
    print("tseb eht hsiw ", end = "")
```

Output

### 3. Repetition(for-while loop)

Write the output of the source code execution

```
for i in range(10, 40, 5) :  
    a = i//5  
    b = i//5  
    print(i, end="")  
    while a > 0 :  
        print('-',end="")  
        a -= 1  
    for j in range(b) :  
        print(j, end="")  
    print()
```

Output