

## 02 Handwritten

### 1. Decide if the following are true or false

- a. `(not 5 < 3) or "Cat" == "Dog"`
- b. `not True`
- c. `Not False`
- d. `True or False`
- e. `False and False`
- f. `False or True or False`
- g. `True and False and True and False`

### 2. Assume there's an integer/number variable `x`, write an if statement that prints "Foo" if `x` is greater than 5, "Bar" if the number is 4, otherwise just prints "No"

### 3. Assume there's an integer/number variable `n`, write an if statement that prints "foo" if `n` is divisible by 3, prints "bar" if the number is divisible by 5 and prints "foobar" if the number is divisible by both 3 and 5

*Hint: The modulo (%) operator gives you the remainder of a division, e.g. `10 % 4 = 2`, `10 % 5 = 0`*

## 02 Handwritten Answers

### 1. Decide if the following are true or false

- |                                      |       |
|--------------------------------------|-------|
| a. (not 5 < 3) or "Cat" == "Dog"     | True  |
| b. not True                          | False |
| c. Not False                         | True  |
| d. True or False                     | True  |
| e. False and False                   | False |
| f. False or True or False            | True  |
| g. True and False and True and False | False |

### 2. Assume there's an integer/number variable x, write an if statement that prints "Foo" if x is greater than 5, "Bar" if the number is 4, otherwise just prints "No"

```
if n > 5:
    print("Foo")
elif n == 4:
    print("Bar")
elif n % 5 == 0:
    print("No")
```

### 3. Assume there's an integer/number variable n, write an if statement that prints "foo" if n is divisible by 3, prints "bar" if the number is divisible by 5 and prints "foobar" if the number is divisible by both 3 and 5

*Hint: The modulo (%) operator gives you the remainder of a division, e.g. 10 % 4 = 2, 10 % 5 = 0*

```
if n % 3 == 0 and n % 5 == 0:
    print("foobar")
elif n % 3 == 0:
    print("foo")
elif n % 5 == 0:
    print("bar")
```