

# CONTROL FLOW EXERCISE

## TASK 1: CONTROL FLOW WITH DICTIONARY

### WORK WITH

```
d1 = {"k1": [1,2,3, (100, 300, 500)], "k2": [4,5,6, ["phone",  
"computer", "robot"]]}  
var = eval(input("Enter a number: "))  
if #Add Code Here:  
    print("found you!")  
    num = input("Enter a number: ")  
    # Add Code VV  
    (num) in d1["k2"][:3]:  
        print("Found another one!")  
  
    item = input("Enter an item: ")  
  
    if item in d1["k2"][3]:  
        print("Got a", item)  
    else:  
        print("Can't find a", item)  
    # Add Code Here  
    print("Can't find anything!")  
  
elif #Add Code Here:  
    print("can't hide!")  
else:  
    print("Where are you?")
```

### DESIRED OUTPUT 1

Enter a number: 3  
found you!  
Enter a number: 4  
Found another one!  
Enter an item: car  
Can't find a car

### DESIRED OUTPUT 2

Enter a number: 4  
Where are you?

### HINTS?

1. For the output control flow, check if var is in "k1".
2. Else if var is in "k1"[3].
3. Create an inner or nested control flow.
4. You should have multiple outputs depending on your two inputs for both var and num.
5. Add the **in** operator in 2 lines of code for the outer control flow.
6. Use the **eval** for one of the control flow statements.

## TASK 2: CONTROL FLOW WITH ONLY ONE IF STATEMENT

### WORK WITH

```
choose_dish = input("Enter a number 0 to 2: ")
pick_sauce = input("Enter a number 0 to 2: ")

cooked_pasta = ["hot", "cold", "over cooked"]
sauce = ["spicy", "sweet", "savoury"]
print("My meal is", cooked_pasta, "and very", sauce, "!")
```

### DESIRED OUTPUT

Enter a number 0 to 2: 0  
Enter a number 0 to 2: 0  
My meal is hot and very spicy !

### HINTS?

1. Use only ONE **if** statement and an **else** statement.
2. Use **eval** built-in function or method.
3. Use indexing.
4. Use the **None** type object as the only output for the **if** statement.
5. Use the following operators:
  - **and**
  - **or**
  - **>**
  - **<**