CONTROL FLOW EXERCISE SOLUTIONS

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 :
    print("found you!")
    num = input("Enter a number or string: ")

    (num) in d1["k2"][:3]:
        print("Found another one!")

    num in d1["k2"][3]:
        print("Got a", num)

        print("Can't find anything!")

elif
    print("can't hide!")

else:
    print("Where are you?")
```

DESIRED OUTPUT 1

Enter a number: 2
found you!
Enter a number or string: 2
Can't find anything!

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

4. You should have multiple outputs depending on your two inputs for both var and num.

In [1]:

```
d1 = {"k1": [1,2,3, (100, 300, 500)], "k2": [4,5,6, ["phone", "computer", "robot"]]}
d1

var = eval(input("Enter a number: "))


if var in d1["k1"]:
    print("found you!")
    num = input("Enter a number or string: ")

    if (num) in d1["k2"][:3]:
        print("Found another one!")

    elif num in d1["k2"][3]:
        print("Got a", num)

    else:
        print("Can't find anything!")


elif var in d1["k1"][3]:
    print("can't hide!")

else:
    print("Where are you?")
```

```
Enter a number: 4
Where are you?
```

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**
    - **>**
    - **<**

In [2]:

```
choose = eval(input("Enter a number 0 to 2: "))
pick = eval(input("Enter a number 0 to 2: "))


if (choose >2 and pick >2)or (choose <=2 and pick >2)or (choose >2 and pick<
=2):
    None

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

```
Enter a number 0 to 2: 0
Enter a number 0 to 2: 1
My meal is hot and very sweet !
```