CONTROL FLOW (IF, ELSE, ELIF)

IF, ELSE, ELIF

In [3]:

- · Adds logic to our code
- The **if** statement performs a task **if** the condition is true.
- The else statement performs a default when the if statement's condition is false.
- Else statements cannot exist on their own.
- The elif statement (short for else if) works in between if and else statements.
- Elif only performs a task when true, and the if statement is false.

DEPENDS ON INDENTATION!

```
a = 10; b = 25; c = 100; d = ("cat", "dog", "bird")
In [31]:
if a == 10:
    print("a is true!")
    if b < 40:
        print("b is true!")
        if c > 9:
            print("c is true!")
            if "zebra" in d:
                print("d is true!")
            else:
                print("d is false!")
        else:
            print("c is false!")
    else:
       print("b is false!")
    print("a is false!")
a is true!
b is true!
c is true!
d is false!
In [45]:
num = eval(input("Enter a number: "))
if num >= 3:
```

```
print("Keep looking!")
elif d[num] == "cat":
   print("Found a {}".format(d[num]))
elif d[num] == "dog":
   print("Found a {}".format(d[num]))
else:
    print("Found a bird!")
Enter a number: 2
Found a bird!
In [39]:
d
Out[39]:
('cat', 'dog', 'bird')
In [51]:
total = [list(range(11)), list(range(11, 21)), list(range(21, 31))]
total
Out[51]:
[[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10],
[11, 12, 13, 14, 15, 16, 17, 18, 19, 20],
[21, 22, 23, 24, 25, 26, 27, 28, 29, 30]]
In [56]:
v = eval(input("Enter a number: "))
if v in total[0]:
   print(v, "in list one")
elif v in total[1]:
   print(v, "in list two")
elif v in total[2]:
   print(v, "in list three")
else:
    print("not in any list")
Enter a number: 40
not in any list
```