

python2_if_statements

January 22, 2024

```
[1]: if True:  
      print('something')
```

something

```
[2]: if False:  
      print('something')
```

```
[7]: #comparing lists  
  
list1 = [1,2,3]  
list2 = [1,2,3]  
list3 = [1,2,4]  
  
print(list1 == list2)  
print(list1 == list3)  
print(list2 == list3)
```

True
False
False

```
[9]: #comparing tuples  
  
t1 = (1,2,3)  
t2 = (1,2,3)  
t3 = (1,2,4)  
  
print(t1 == t2)  
print(t1 == t3)  
print(t2 == t3)
```

True
False
False

```
[10]: #comparing dictionaries
```

```
dict1 = {'a': 1, 'b': 2, 'c': 3}
dict2 = {'a': 1, 'b': 2, 'c': 3}
dict3 = {'a': 1, 'b': 2, 'c': 4}

print(dict1 == dict2)
print(dict1 == dict3)
print(dict2 == dict3)
```

True
False
False

```
[4]: #lets say...
```

```
x=21
```

```
[15]: if x==7:
        print(f"x is {x}")

    elif x==35:
        print(f"x is {x}")

    else:
        print("x is not 7")
```

x is not 7

```
[16]: if x==7:
        print(f"x is {x}")

    elif x==21:
        print(f"x is {x}")

    else:
        print("x is not 7")
```

x is 21

```
[17]: a=int(input("What is a? "))
        b=int(input("What is b? "))

    if a<=b:
        print(" b is greater than a")
    else:
        print(" a is greater than b")
```

What is a? 10
What is b? 20

b is greater than a

```
[30]: age=int(input("What is your age? "))

if age%2 == 0:
    print('Your age is EVEN number!')
else:
    print('Your age is ODD number!')
```

What is your age? 21
Your age is ODD number!

```
[31]: name_list=["Liam", "Noah", "Jack", "Owen", "Levi", "John", "Luke", "Ezra",
    ↪ "Ryan",
    ↪ "Luca", "Adam", "Jose", "Jace", "Evan", "Luis", "Cole", "Amir",
    ↪ "Beau",
    ↪ "Gael", "Juan", "Ivan", "Jude", "Zion", "Abel", "King", "Milo",
    ↪ "Alex",
    ↪ "Finn", "Dean", "Eric", "Alan", "Joel", "Theo", "Leon", "Colt",
    ↪ "Enzo",
    ↪ "Luka", "Mark", "Zane", "Knox", "Paul", "Omar", "Nash", "Lane",
    ↪ "Kyle",
    ↪ "Arlo", "Cash", "Cody", "Jett", "Kash", "Reid", "Jake", "Sean",
    ↪ "Cruz",
    ↪ "Odin", "Kane", "Wade", "Iker", "Crew", "Sara", "Liam", "Kate",
    ↪ "Jess"]
name=input("What is your name? ")
if len(name) <4 or len(name)>4:
    print("Name does not match ")
elif name.capitalize() in name_list:
    print("Name is found ")
else:
    print("Name is found ")
    name_list.append(name.capitalize())
    print(name_list)
```

What is your name? Sukhdeep
Name does not match

```
[35]: #Let's solve an equation!

x=int(input("What is x? "))
y=x**3+6*x**2+12

print(f" x is {x} and y is {y}")

if y<=50:
```

```
    print(f"y is {y} which is LESS than 50")  
  
else:  
    print(f"y is {y} which is GREATER than 50")
```

What is x? 2

x is 2 and y is 44

y is 44 which is LESS than 50