IF statements

Python basics

Kunal Khurana

2023 - 10 - 06

Table of contents

Learn	ing outcmoes	2
]	print bmw in upper case and the other cars in the title case	2
ć	allowing a user to post a comment	3
7	voting using if/else	3
1	price using if/else/elif	3
t	toppings using if/elif/else and for loops	4

Learning outcmoes

- 1. write conditional tests, which always evaluate to True or False.
- 2. write simple if statements, if-else chains, and if-elif-else chains.
- 3. use these structures to identify particular conditions you needed to test and to know when those conditions have been met in your programs.
- 4. learn to handle certain items in a list differently than all other items while continuing to utilize the efficiency of a for loop.

print bmw in upper case and the other cars in the title case

```
# let's print bmw in upper case and the other cars in the list as title case
cars = ['honda', 'toyota', 'volksvogen', 'ferrari', 'bmw', 'benz']

for car in cars:
   if car == 'bmw':
        print(car.upper())
   else:
        print(car.title())
```

Honda Toyota Volksvogen Ferrari BMW Benz

allowing a user to post a comment

```
banned_users = ['raghav', 'sunita', 'carlos']
user = 'dave'

if user not in banned_users:
    print(f"{user.title()}, you can post a comment if you wish.")
```

Dave, you can post a comment if you wish.

voting using if/else

```
age = 19

if age >= 18:
    print('You are old enough to vote!')
    print('Are you registered to vote?')
else:
    print("Sorry, you are too young to vote.")
    print("PLease register to vote as soon as you turn 18!")
```

You are old enough to vote! Are you registered to vote?

price using if/else/elif

```
age = 12

if age < 4:
    price = 0
elif age < 18:
    price = 25
elif age <= 65:
    price = 40</pre>
```

```
else:
    price = 20

print(f"Your admission price is {price}.")
```

Your admission price is 25.

```
age = 66

if age < 4:
    price = 0
elif age < 18:
    price = 25
elif age <= 65:
    price = 40
else:
    price = 20

print(f"Your admission price is {price}.")</pre>
```

Your admission price is 20.

toppings using if/elif/else and for loops

```
req_toppings = ['mushrooms', 'green peppers', 'belpeppers', 'onions', 'lettuce']

for req_topping in req_toppings:
    if req_topping == 'onions':
        print("Sorry, we are out of onions right now.")
    else:
        print(f'Adding {req_topping}.')

print('\nFinished making your pizza!')

Adding mushrooms.
Adding green peppers.
Adding belpeppers.
Sorry, we are out of onions right now.
```

```
Adding lettuce.
```

Finished making your pizza!

```
req_toppings = []

if req_toppings:
    for req_topping in req_toppings:
        print(f'Adding {req_topping}.')
    print('\nFinished making your pizza!')

else:
    print("Are you sure you want a plain pizza?")
```

Are you sure you want a plain pizza?

Adding mushrooms
Adding green peppers
Sorry, we don't have broccoli.

Finished making your pizza!