Project: Terminal Application By Chang-Ha LEE

What is the project about?

LionWolf Haus

- Restaurant Tycoon -

What is the project about?

"Terminal application"

+

"Interactive with user input"

What do you do in this game?

Business Simulation Game

Order stocks + Sell them and earn money + Give instructions to solve the problem

Main Feature #1

rading

Main Feature #1

While loop

Main part of this game

Starting from the first customer

Pick items, find them in price and stock

dictionary

Each trading come with gain Happiness

But if stock is under 0

Money give back then lose Happiness

Main Feature #2

Accidents

... - . |

```
def count_hours():
    """setup to make it look like game_round function is excuting through time"""
    for time in range(9, 16):
        if time < 12:
           print(f"\n {time} AM ...")
       elif time == 12:
           print(f"\n {time} PM ...")
       else:
           print(f"\n {time - 12} PM ...")
       sleep(1)
       accidents() # Unexpected accidents might happen
    sleep(1)
    typing_animation("\n\nWe're closed now!", 0.02)
    sleep(1)
    typing_animation("\n\nI'll go get the daily report.\n\n", 0.02)
    sleep(1)
    enter_to_cont()
def accidents():
    """part of Main feature 2. decide a chance that accident happens"""
    chance = random.randint(0, 100)
    if chance > 98:
        long_wait()
    elif 71 > chance > 68:
       broken_cups()
    elif 3 < chance < 5:
        food_inspector()
```

Method of approach

Important part to understand this app

Programming Language - Series structure

Real world - Parallel structure

To make it look like Trading executes in real time Although it's already finished before we count

You can build it in Parallel way but <u>efficiency</u>

Main Feature #3

Order Stocks

```
def place_order():
   """part of main feature 3."""
    typing_animation("\nPlease let me know the stock orders for tomorrow service.\n\n", 0.02)
   sleep(0.5)
   payments_due = 0
   adj = CC.venue.price_adj
   if CC.venue.days % 7 == 0: # paying rent fee setup
       print('''\n Every 7 days, We have to pay the rent to the realestate agent.\n
   We have paid $''' + CS.color.RED + "8500" + CS.color.END +
   ". It'lle be added to the payment due.\n\n")
       payments_due += 8500
   print("Order list : \n\n")
   sleep(0.5)
   for name in CC.venue.current_stocks.keys():
       while True: # Order amount compare with last one
           num_taken = input(
               name + " is $ " +
               CS.color.BLUE + f"{adj * CC.venue.supplier_prices[name]:.2f}" + CS.color.END +
               ". How many units to order? Yeseterday: " +
               f"{CC.venue.yesterday_stocks[name]} ea / Today : ")
                       # doesn't need certain numbers. any numbers but letters or negative numbers
           try:
               units = int(num_taken)
                                   # negative numbers
               if units < 0:
                   raise ValueError
               CC.venue.current_stocks.update({name : int(units)})
               payments_due += int(units) * CC.venue.supplier_prices[name] * adj
           except ValueError:
               print(CS.color.RED + "Please enter the right number\n" + CS.color.END)
                continue # pass the below and go back to ask again
           finally:
               print("")
           break
   sleep(0.5)
```



2 ways of Error Handling

Depends on what value you need back from input

1. try/except statement

Because we need lots of different numbers back
Try casting the input to Integer
If not possible which means ValueError occurs
'continue' statement makes it ignore the rest of
lines of codes until casting to Integer is possible

But what if I need certain numbers only back?

Main Feature #3

2 ways of Error Handling

Depends on what value you need back from input

2. while false:

This case, we need only **Yes or No** answer.

Only if we receive what we want,

The loop will break by True

Anything else from input,

No matter what it is, We don't need it

Demonstration

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