



THE NERDS

Shopping List Algorithm

FUTURE MARKETING SOCIETY



TOPICS

THE NERDS

- INTRO
- PROBLEMS
- SOLVES
- PREDICTS
- EXPLANATION
- FLOWCHARTS
- CODE
- MEMBERS
- REFFERENCES



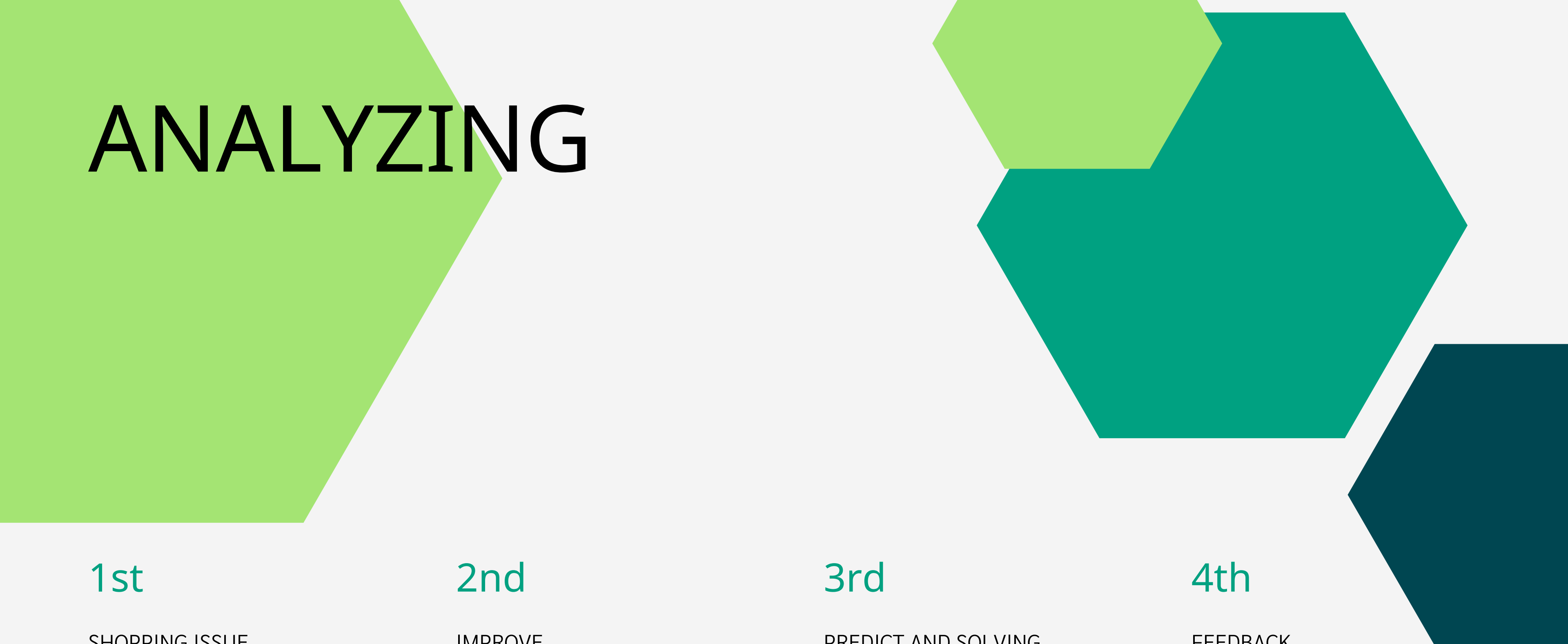
THE NERDS

INTRODUCTION

- We are using the searching sorting algorithms on online shopping platforms using Google Colab and the search and sorting techniques we acquired in this course.
- Customers may look up a certain product via search.
- Customers may sort their products based on pricing by using the Sorting feature.



ANALYZING



1st

SHOPPING ISSUE

2nd

IMPROVE

3rd

PREDICT AND SOLVING

4th

FEEDBACK



ALGORITHM



How are we applying algorithms?

- Using sorting and searching, we may choose which goods to purchase by comparing the pricing of the items we already purchased. Users will be able to buy more conveniently by using this algorithm system.

FURTHERMORE



EFFICIENT

Capable of producing desired results with little or no waste (as of time or materials)

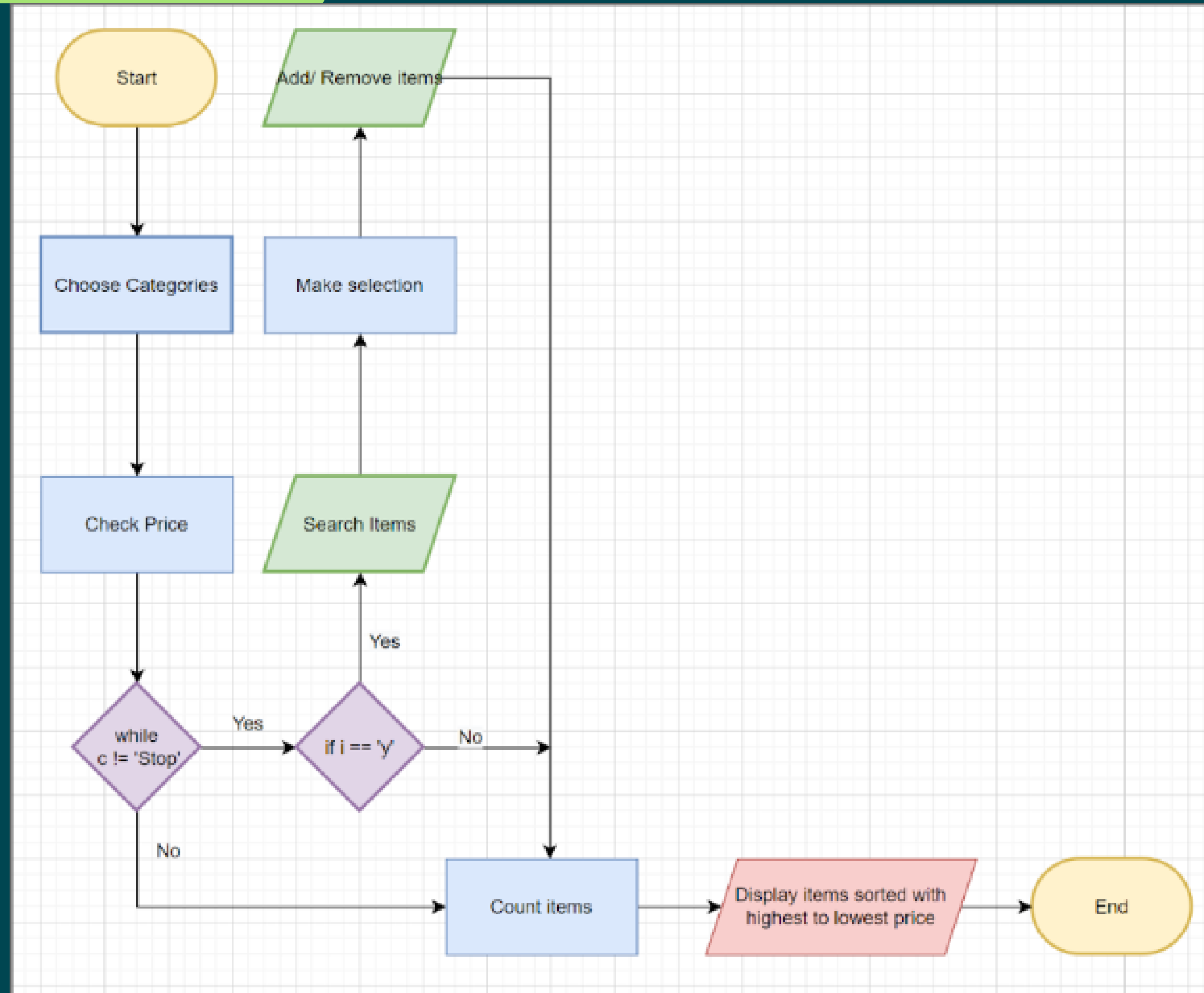
ACCURACY

The condition or quality of being true, correct, or exact; freedom from error or defect; precision or exactness; correctness.

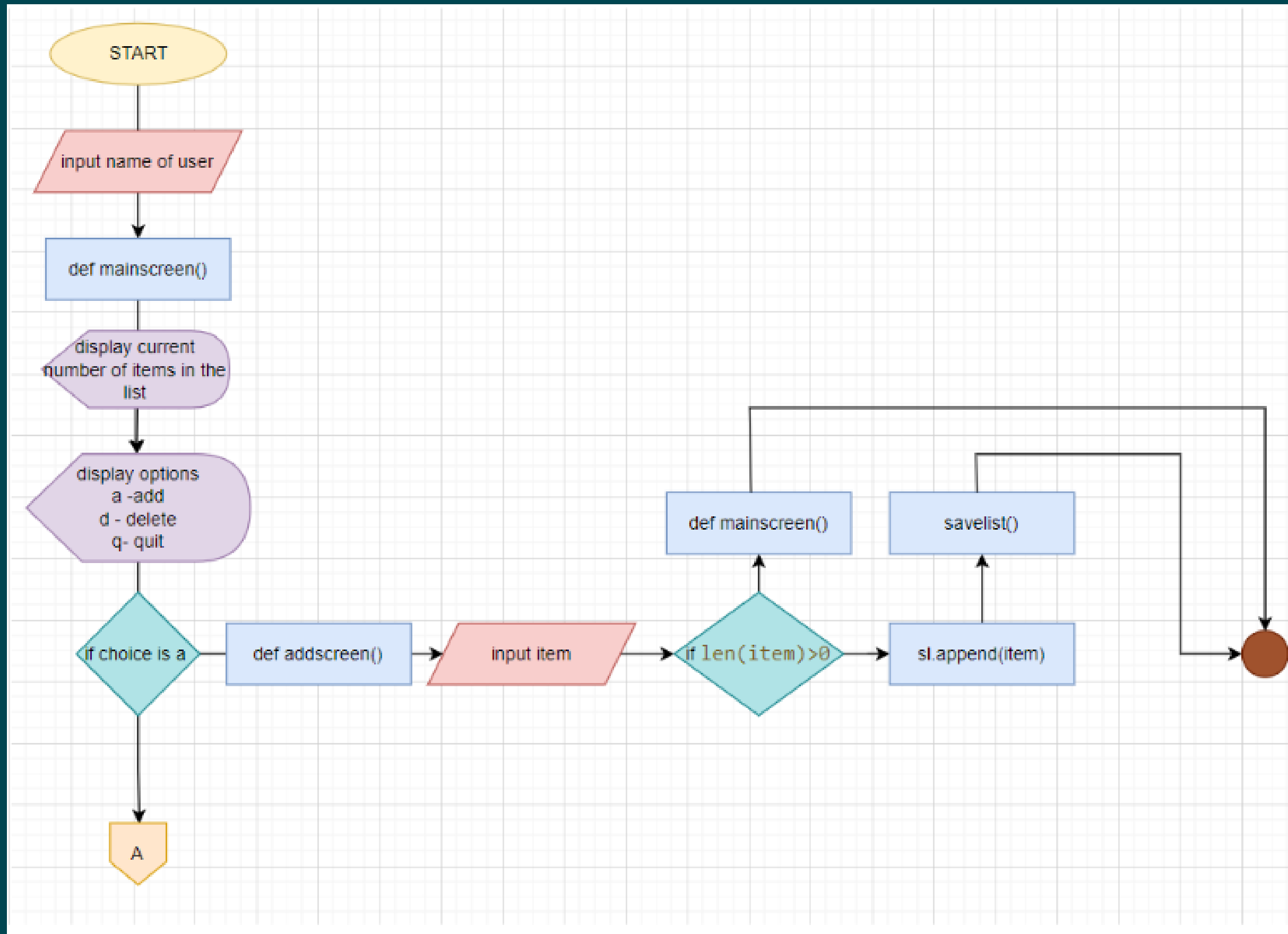
VALUABLE

Having considerable monetary worth; costing or bringing a high price

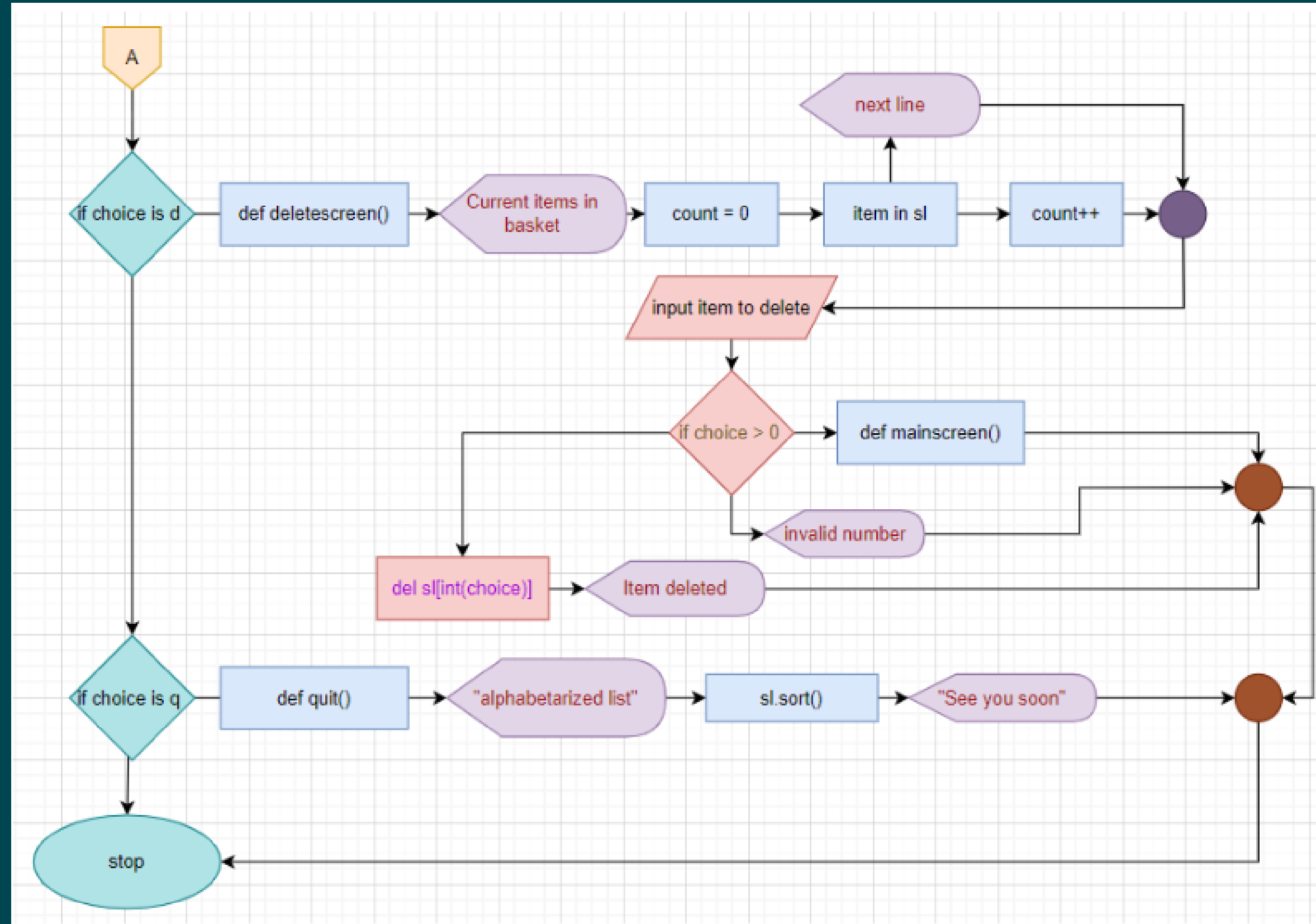
FLOWCHART

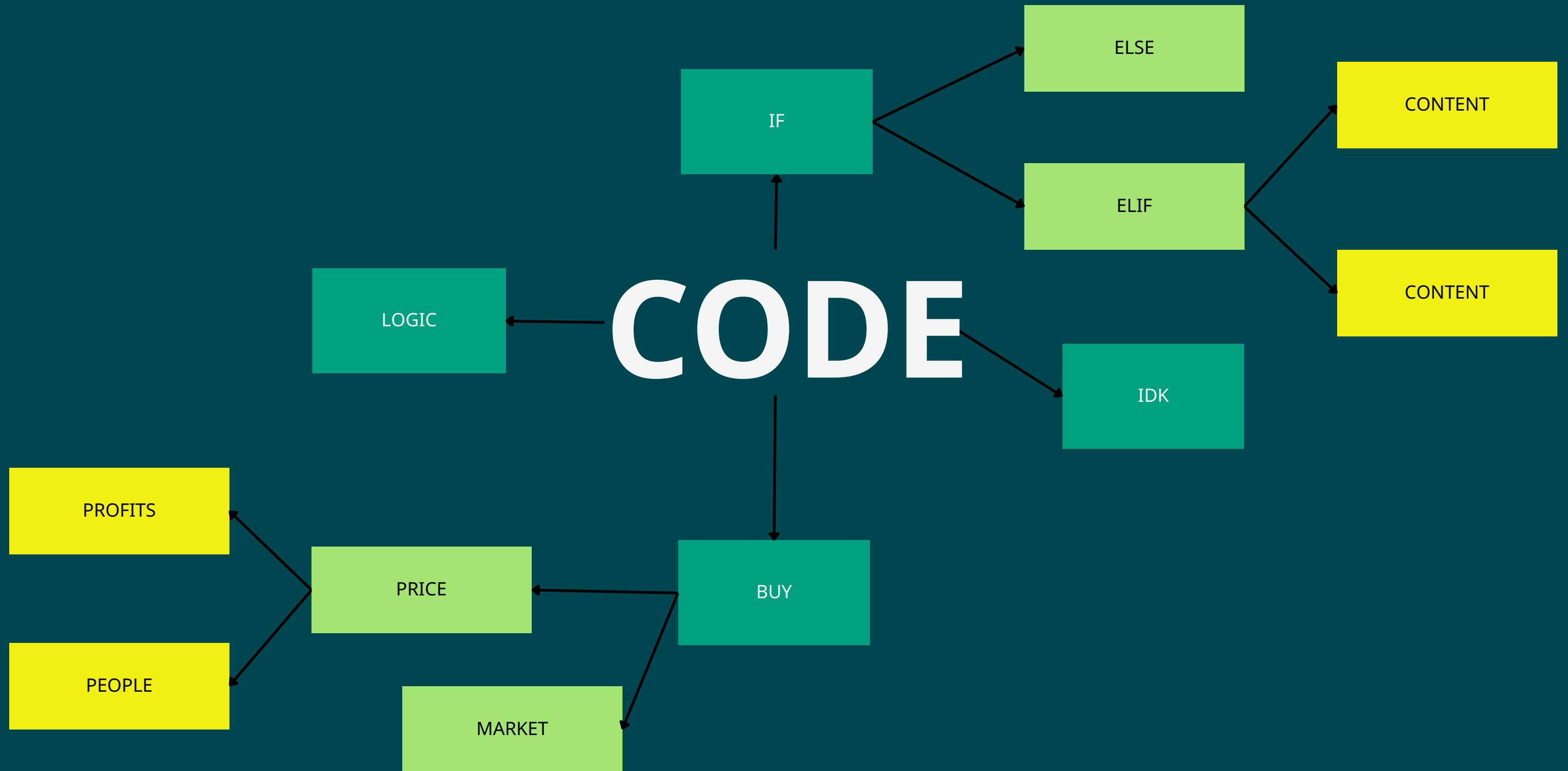


FLOWCHART




FLOWCHART






✓
2s [8] `from google.colab import drive`
`drive.mount('/content/drive')`

Drive already mounted at /content/drive; to attempt to forcibly remount, call `drive.mount("/content/drive", force_remount=True)`.

✓
0s  `#import the .txt file from drive to display the items available`
`from google.colab import drive`
`import pandas as pd`
`#drive.mount('/content/drive')`
`print("Items list")`
`#drive/MyDrive/Items.txt`
`def list():`
 `f = open("Items.txt", "r")`
 `print(f.read())`

`list()`

 Items list

No.	Item	Price
1	Soap	17
2	Coke	20
3	Water	10
4	Apples	40
5	Oranges	35
6	Candy	12
7	Bread	42
8	Eggs	45
9	Jam	35
10	Sugar	30

```

import os,sys,time

# Taking input from the user
name = input("Enter your name: ")

# Output
print("Hello", name)

sl = []
bill = 0

#shopping list -> sl
#bill -> bill

#function for main menu
def mainScreen():
    os.system('cls')
    print("%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%")
    print("          SHOPPING LIST          ")
    print("%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%")
    print("\n\nYour basket contains",len(sl),"items.\n")
    print("Please choose from the following options:\n")
    print("(a)dd to the list")
    print("(d)etele from the list")
    print("(q)uit the program")
    choice = input("\nchoice: ")
    if len(choice) > 0:
        if choice.lower()[0] == "a":
            addScreen()

```

```

        elif choice.lower()[0] == "d":
            deleteScreen()

```

```

        elif choice.lower()[0] == "q":
            quit()
        else:
            mainScreen()
    else:
        mainScreen()

```

```

#function for adding items

```

```

def addScreen():
    global sl
    global bill
    os.system('cls')
    print('\n')
    print("%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%")
    print("          ADD SCREEN          ")
    print("%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%")
    print("\n")
    print("From the list above, please enter the name of the item that you want to add.")
    print("Press ENTER to return to the main menu.\n")
    item = input("\nItem: ")
    if len(item) > 0:
        sl.append(item)
        print("Item added :-)")
        saveList()
        time.sleep(1)
        addScreen()
    else:
        mainScreen()

```

```
#function for deleting items
def deleteScreen():
    global sl
    global bill
    os.system('cls')
    print("XXXXXXXXXXXXXXXXXXXXXXXXXXXX")
    print("      DELETE SCREEN      ")
    print("XXXXXXXXXXXXXXXXXXXXXXXXXXXX")
    print("Current items in basket:")
    count = 0
    for item in sl:
        print(count, " - ", item)
        count = count + 1
    print('\n')
    print("Press the number of the item to delete\nIf not press enter to go back to the mainscreen.")
    choice = input("number: ")
    if len(choice) > 0:
        try:
            del sl[int(choice)]
            print("Item deleted...")
            saveList()
            time.sleep(1)
        except:
            print("Invalid number")
            time.sleep(1)
            deleteScreen()

    else:
        mainScreen()
```

#function for saving items


```
def saveList():
    f = open("shopping2.txt", "w")
    for item in sl:
        f.write(item+"\n")
    f.close()
```

#function after quitting from the code

```
def quit():
    print('Here is your alphabetized shopping list.')
    sl.sort()
    for listitem in sl:
        print(listitem)
    print("*****Thank You*****")
    print("Hope to see you back soon!")
```

mainScreen()

Displaying items available.



Items list			
No.	Item	Price	
1	Soap	17	
2	Coke	20	
3	Water	10	
4	Apples	40	
5	Oranges	35	
6	Candy	12	
7	Bread	42	
8	Eggs	45	
9	Jam	35	
10	Sugar	30	

Initialize program and make choice "a"

```
Enter your nameUser
Hello User
-----
SHOPPING LIST
-----

Your list contains 0 items.

Please choose from the following options:

(a)dd to the list
(d)elete from the list
(q)uit the program

choice: a
-----
```

```
-----
ADD SCREEN
-----
```

```
Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.
```

```
Item: bread
Item added :-)
```




Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.

```
Item: jam
Item added :-)
```

ADD SCREEN

Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.

```
Item: sugar
Item added :-)
```

ADD SCREEN

Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.

```
Item: soap
Item added :-)
```

ADD SCREEN



ADD SCREEN

Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.

```
Item: candy
Item added :-)
```

ADD SCREEN

Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.

```
Item: coke
Item added :-)
```

ADD SCREEN

Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.

Item: water

Press "enter" and then choose "d"

Item: water

Item added :-)

ADD SCREEN

Please enter the name of the item that you want to add.
Press ENTER to return to the main menu.

Item:

SHOPPING LIST

Your list contains 7 items.

Please choose from the following options:

(a)dd to the list

(d)delete from the list

(q)uit the program

choice: d

DELETE SCREEN

9 - bread

1 - Jam

2 - sugar

3 - soap

4 - candy

5 - coke

6 - water

What number to delete?

If not press enter to the mainscreen.

number: 2

Item deleted...

DELETE SCREEN

9 - bread

1 - jam

2 - soap

3 - candy

4 - coke

5 - water

What number to delete?

If not press enter to the mainscreen.

number:

Quit from the program

[illegible]

REFERENCES

Flowchart

<https://drive.google.com/file/d/16QoFhF5kpju8PKJ-MFIJBs1iG2CLcLWe/view?usp=sharing>

Source Code

<https://colab.research.google.com/drive/1gus7G0hnmDma9NVy9iDWOb0UrHKeEby-#scrollTo=9U3mPOeho1ia>

Youtube link: <https://www.youtube.com/watch?v=BPtUw3ekRlg>

THE NERDS

CREW MEMBER

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The background is a solid dark teal color. It is decorated with several hexagonal shapes in two shades: a vibrant teal and a light lime green. In the top left, there is a large light green hexagon. To its right, a smaller teal hexagon is partially visible. Further right, a large teal hexagon is positioned. In the bottom left, there is a large teal hexagon, a white hexagon, and a small light green hexagon. In the bottom right, there is a large teal hexagon and a medium-sized light green hexagon above it.

THANK YOU