

Diya's Flower Shop

What I have accomplished:

- I have designed a transaction system in a flower show that performs all the standard tasks of a transaction system. It has the functionalities for the customers of a shop (e.g. show catalog, place an order) as well as the owner of the shop (e.g. check inventory, order flower from the supplier). As a special case, I have provided a functionality to visualize the current inventory in the form of a bar chart. For this, I have used the matplotlib library. I have also coded for appropriate checks like, if the flower order does not exist in the inventory, the system will notify the customer and does not allow the order to be processed.

Challenges faced:

- My code involved a lot of dictionaries and lists. Some of the most difficult parts of writing my code were the manipulating these complex data types.
- I tried to display thea images of the flower but that required a separate graphics window. So it did not fit well with the rest of the application so I dropped the plan.

Testing information:

- STEP 0: The opening screen shows all the options that can be performed in this flower shop.
- STEP 1: Enter (1) to displays all the flowers in the flower shop and their quantity.
- STEP 2: Enter (2) to ask the customers the name and the quantity of the flower wanted. This also checks for the availability of the flower and the amount. After the order is placed the system shows the updated inventory.
- STEP 3: Enter (3) to ask the customer for a name of a flower and system prints out a description.
- STEP 4: Enter (4) to ask the user for an occasion and suggests flowers for that occasion accordingly.
- STEP 5: Enter (5) to display all the flowers available in the shop and their unit price.
- STEP 6: Enter (6) to visualize the shop in the form of a bar graph.
- STEP 7: Enter (7) to order to specific flowers in specific quantities form the supplier. This increases the quantity of those flowers.
- STEP 8: Enter (8) to display transaction history.
- STEP 9: Enter (9) to end the application.