

2023 - 24

# INSTANT PIZZA VENDING MACHINE


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# ABOUT THE PROGRAMMING

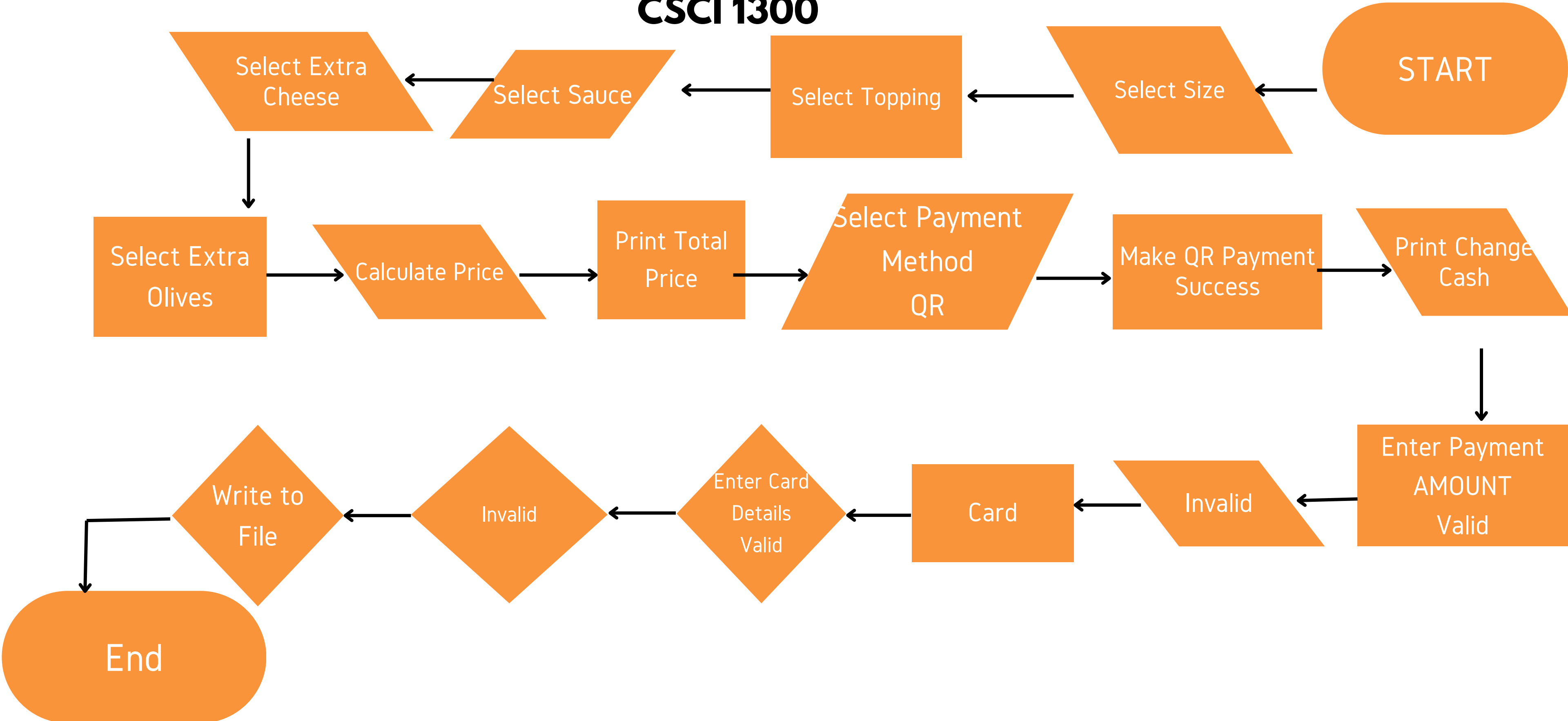
AN INSTANT PIZZA VENDING MACHINE IS A TECHNOLOGICALLY ADVANCED AND AUTOMATED SYSTEM DESIGNED TO PROVIDE FRESHLY PREPARED PIZZAS TO CUSTOMERS IN A MATTER OF MINUTES. THE MACHINE COMBINES ELEMENTS OF TRADITIONAL PIZZA PREPARATION WITH CUTTING-EDGE TECHNOLOGY, MAKING IT POSSIBLE TO ENJOY A HOT AND DELICIOUS PIZZA WITHOUT THE NEED FOR HUMAN INTERVENTION. QUICK-PREPARED PIZZA IS SOLD BY THE MACHINE IN A VARIETY OF SIZES AND PRICING. A CUSTOMER HAS THE OPTION TO SELECT HIS PREFERRED PIZZA KIND, ADD EXTRA SAUCE, AND ASK FOR EXTRA CHEESE IF DESIRED. THE MACHINE ALERTS THE USER IF AN ITEM IS NOT AVAILABLE. YOU CAN PAY WITH CASH OR A QR CODE.



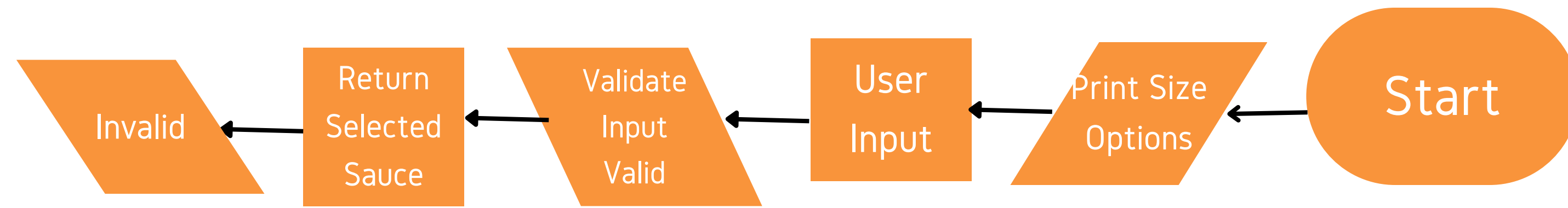


# FLOW CHARTS

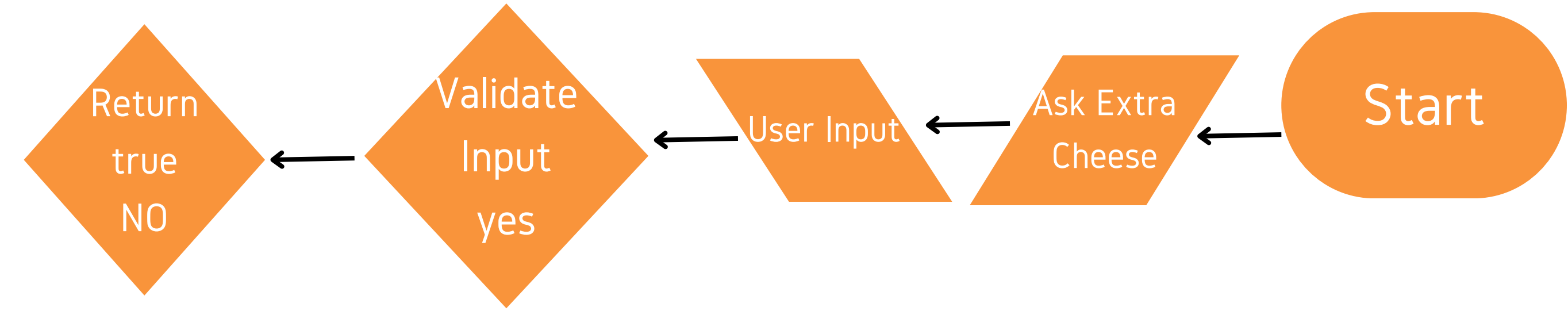
## CSCI 1300



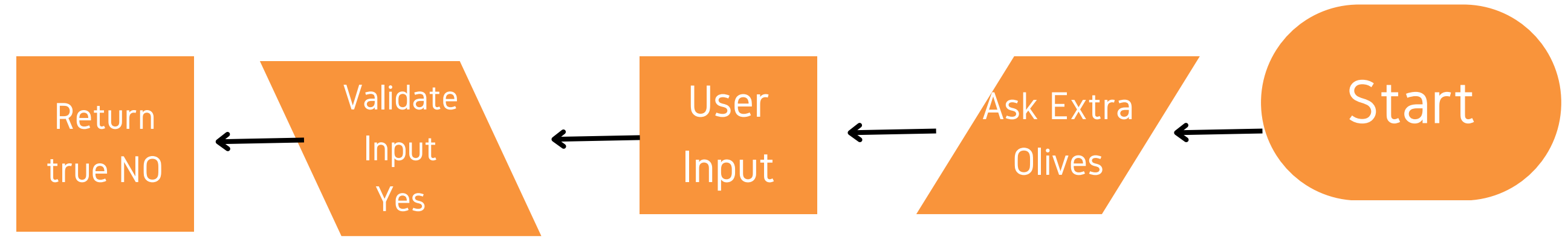
select sauce flow  
chart



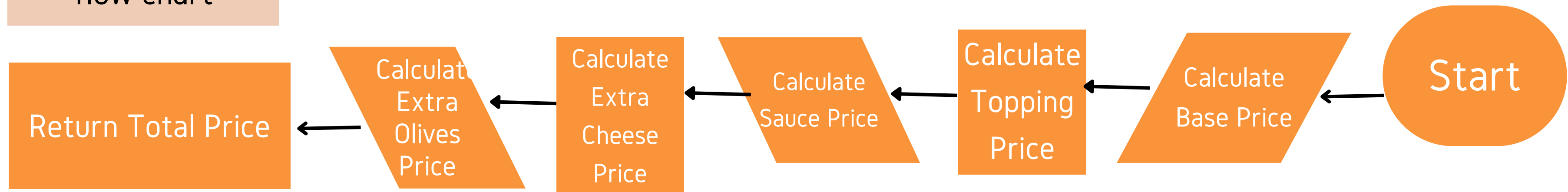
select extra  
cheese flow chart



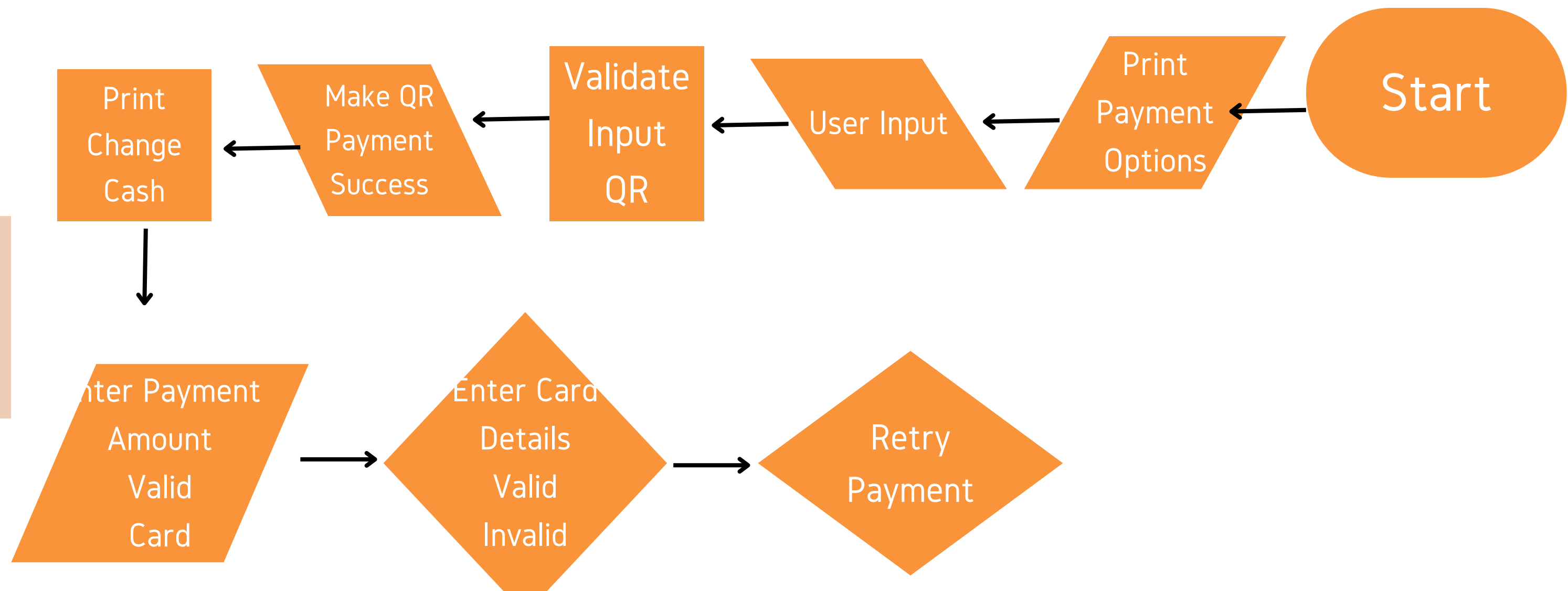
select extra olive  
flow chart



calculate the price  
flow chart



payment handling  
flow chart



# METHODS

## MAIN METHOD

This is the main method where the execution of the program starts. It includes the logic for selecting pizza size, toppings, sauce, handling payment, calculating the total price, and writing a receipt to a file.

## SELECTSIZE METHOD

This method prompts the user to select a pizza size (Personal, Regular, or Large) and returns the user's choice.

## SELECTTOPPING METHOD

This method prompts the user to select a pizza topping (Chicken Pepperoni, Beef Pepperoni, Hawaiian, Seafood, or Cheese) and returns the user's choice.

## SELECTSAUCE METHOD

This method prompts the user to select a pizza sauce (Tomato, Barbecue, or Garlic) and returns the user's choice.

# METHODS

## SELECTEXTRACHEESE METHOD

This method asks the user if they want extra cheese and returns a boolean value based on their choice.

## SELECTEXTRAOLIVES METHOD

This method asks the user if they want extra olives and returns a boolean value based on their choice.

## CALCULATEPRICE METHOD

This method calculates the total price of the pizza based on the selected size, topping, sauce, and additional options (extra cheese, extra olives).

## MAKEPAYMENT METHOD

This method handles the payment process, including selecting a payment method (QR, Cash, or Card), entering the payment amount, and handling invalid payment amounts.

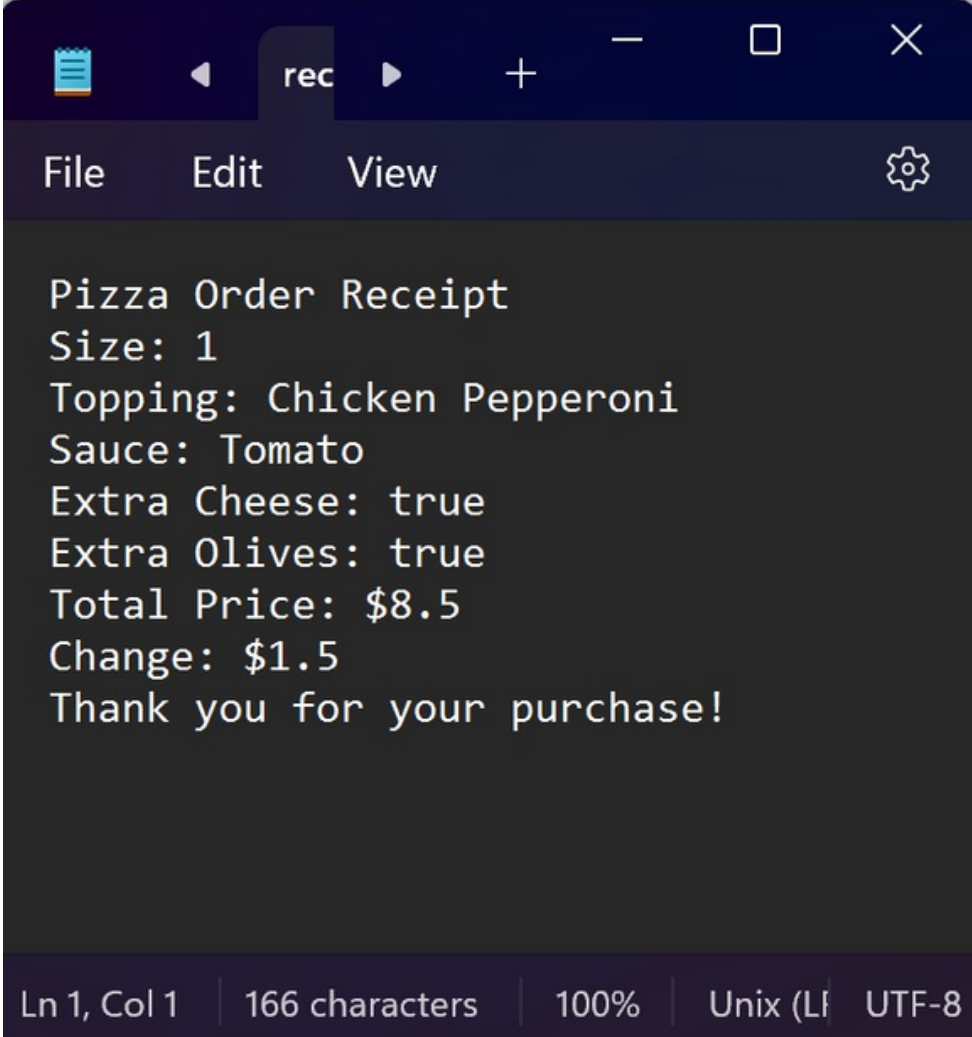
# OUTPUT & TXT FILE

Output - EOPPizzaVendingMachine (run)

```
run:
Select a size:
1. Personal - $5.00
2. Regular - $8.00
3. Large - $10.00
Enter your choice: 1
Select a topping:
1. Chicken Pepperoni - $1.50
2. Beef Pepperoni - $1.50
3. Hawaiian - $2.00
4. Seafood - $2.50
5. Cheese - $1.00
Enter your choice: 1
Select a sauce:
1. Tomato - $0.50
2. Barbecue - $0.70
3. Garlic - $0.60
Enter your choice: 1

Extra Cheese (+$1.00)? (y/n): y
Extra Olives (+$0.50)? (y/n): y
Total Price: $8.50

Select a payment method:
1. QR
2. Cash
3. Card
Enter your choice: 1
You have chosen payment method 1.
Enter payment amount: 10
Change: $1.50
BUILD SUCCESSFUL (total time: 33 seconds)
```



A screenshot of a text editor window with a dark theme. The window has a title bar with standard OS controls and a tab labeled 'rec'. The menu bar includes 'File', 'Edit', and 'View'. The main text area displays a 'Pizza Order Receipt' with the following details: Size: 1, Topping: Chicken Pepperoni, Sauce: Tomato, Extra Cheese: true, Extra Olives: true, Total Price: \$8.5, Change: \$1.5, and a thank you message. The status bar at the bottom shows 'Ln 1, Col 1', '166 characters', '100%', and 'Unix (LF) UTF-8'.

```
Pizza Order Receipt
Size: 1
Topping: Chicken Pepperoni
Sauce: Tomato
Extra Cheese: true
Extra Olives: true
Total Price: $8.5
Change: $1.5
Thank you for your purchase!
```



# THANK YOU

PRESENTERS, STUDENTS MARWA AND SUNDUS

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