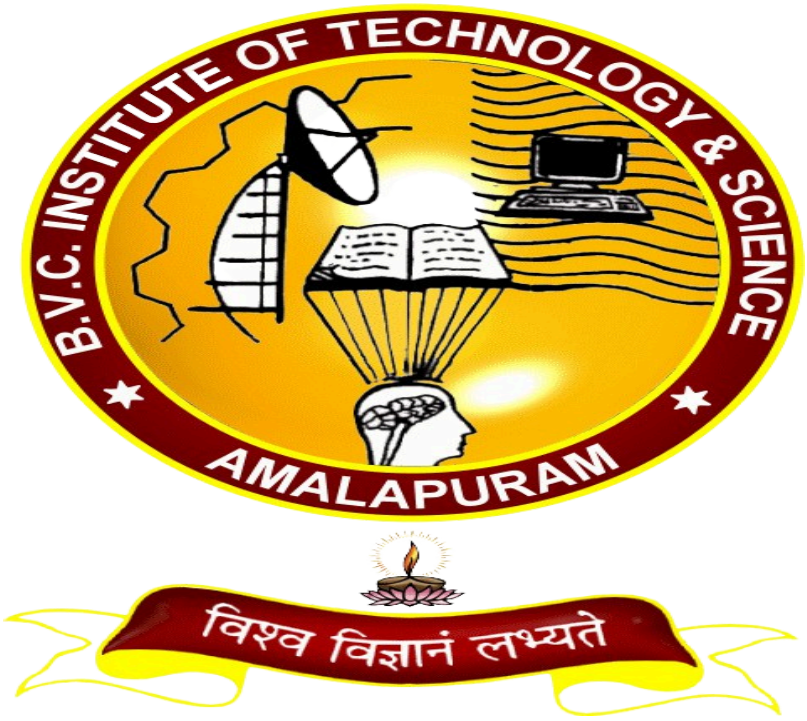
ONLINE GROCERY SHOPPING SYSTEM

A minor project report submitted to

Department of Computer Science and Engineering

Bonam venkata chalamayya institute of technology and science



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ABSTRACT

Online Grocery Shopping System that allows users to select grocery items, specify quantities, calculate total cost, and generate a final bill with delivery charges and customer details.The program begins by displaying a welcome message and a menu of available grocery items (Rice, Sugar, Oil, Milk, and Eggs) with their respective prices. Using a do-while loop, it allows customers to purchase multiple items by entering their choice and quantity. For each selection, the program calculates the item's total price and adds it to the cumulative total.After the shopping loop, the program applies a delivery charge based on the total purchase amount — ₹40 for orders up to ₹100 and ₹70 for orders above ₹100.It then collects customer details such as name, mobile number, and address.Finally, it computes the final amount (total + delivery charge) and displays a formatted bill showing the customer's information, total price, and final amount due.The program uses conditional statements, loops, formatted I/O functions, and string handling to manage user input and output effectively.

PROBLEM STATEMENT

In modern life, people increasingly prefer online shopping for groceries due to convenience and time-saving benefits. However, many existing online grocery systems are complex, require internet access, and are not suitable for beginners learning programming concepts.The goal of this project is to design a simple console-based Online Grocery Shopping System using the C programming language. The system should allow users to select grocery items, specify quantities,collect customer details, calculate the total price, apply appropriate delivery charges, and display a clear, formatted bill with customer details.This program addresses the need for a user-friendly and interactive system that demonstrates practical applications of programming fundamentals, including loops, conditional statements, variables, and input/output operations, while providing a realistic shopping experience

ALGORITHM

1. Start

2. Initialize Variables:
totalprice = 0.0
Declare choice, quantity, deliverycharge as integers
Declare price, finalamount as float
Declare more as character

3. Display Welcome Message

4. Start Shopping Loop (Do-While)
a. Display the list of available items with their prices
b. Read user input: choice and quantity
c. Calculate Item Price:

If choice = 1 → price = 50 * quantity

If choice = 2 → price = 35 * quantity

If choice = 3 → price = 135 * quantity

If choice = 4 → price = 80 * quantity

If choice = 5 → price = 7 * quantity

Else → price = 0 (invalid choice)
d. Add price to totalprice
e. Ask user if they want to buy more items (more = y/n)

5. End Loop (repeat step 4 while more = y)

6. Calculate Delivery Charge:
If totalprice <= 100 → deliverycharge = 40
Else → deliverycharge = 70

7. Calculate Final Amount:
finalamount = totalprice + deliverycharge

8. Display Bill:
Show total item price, delivery charge, and final amount

PSEUDO CODE

```
BEGIN
   // Initialize Variables
   totalprice = 0.0
   DECLARE choice, quantity, deliverycharge AS INTEGER
   DECLARE price, finalamount AS FLOAT
   DECLARE more AS CHARACTER

   // Display Welcome Message
   PRINT "Welcome to Online Grocery Shopping"

   // Start Shopping Loop
   DO
      // Display Menu
      PRINT "Available Items:"
      PRINT "1. Rice - ₹50/kg"
      PRINT "2. Sugar - ₹35/kg"
      PRINT "3. Oil - ₹135/litre"
      PRINT "4. Milk - ₹80/litre"
      PRINT "5. Eggs - ₹7 each"

      // Get User Input
      INPUT choice
      INPUT quantity

      // Calculate Item Price
      price = 0
      IF choice = 1 THEN
         price = 50 * quantity
         PRINT "Added Rice x", quantity
      ELSE IF choice = 2 THEN
         price = 35 * quantity
         PRINT "Added Sugar x", quantity
      ELSE IF choice = 3 THEN
         price = 135 * quantity
         PRINT "Added Oil x", quantity
      ELSE IF choice = 4 THEN
         price = 80 * quantity
         PRINT "Added Milk x", quantity
      ELSE IF choice = 5 THEN
         price = 7 * quantity
         PRINT "Added Eggs x", quantity
      ELSE
         PRINT "Invalid Choice"
      ENDIF
```

```
// Update Total Price
    totalprice = totalprice + price


    // Ask for More Items
    PRINT "Do you want to buy more items? (y/n)"
    INPUT more

  WHILE more = 'y'

 // Calculate Delivery Charge
 IF totalprice <= 100 THEN
    deliverycharge = 40
 ELSE
    deliverycharge = 70
 ENDIF


 // Calculate Final Amount
 finalamount = totalprice + deliverycharge


 // Display Bill
 PRINT "------------------ BILL ------------------"
 PRINT "Total Item Price: ₹", totalprice
 PRINT "Delivery Charge: ₹", deliverycharge
 PRINT "Final Amount: ₹", finalamount
 PRINT "Thank you for shopping with us!”
```

SOURCE CODE

```
#include <stdio.h>
int main()
{
  int choice, quantity;
  int deliverycharge;
  float totalprice = 0, price, finalamount;
  char more;
  char name[100];
  char mobileno[100];
  char address[200];

  printf("Welcome to our store");
  printf("\n-------------------------------");
  printf("\n   ONLINE GROCERY SHOPPING");
  printf("\n-------------------------------\n");

  do
  {
     printf("\nAvailable Items:");
     printf("\n1. Rice - ₹50/kg");
     printf("\n2. Sugar - ₹35/kg");
     printf("\n3. Oil - ₹135/litre");
     printf("\n4. Milk - ₹80/litre");
     printf("\n5. Eggs - ₹7 each");

     printf("\n\nEnter your choice (1-5): ");
     scanf("%d", &choice);

     printf("Enter quantity: ");
     scanf("%d", &quantity);

     if (choice == 1)
     {
        price = 50 * quantity;
        printf("Added Rice x%d\n", quantity);
     }
     else if (choice == 2)
     {
       price = 35 * quantity;
        printf("Added Sugar x%d\n", quantity);
      }
```

```
  else if (choice == 3)
  {
     price = 135 * quantity;
     printf("Added Oil x%d\n", quantity);
  }
  else if (choice == 4)
  {
    price = 80 * quantity;
     printf("Added Milk x%d\n", quantity);
  }
  else if (choice == 5)
  {
     price = 7 * quantity;
     printf("Added Eggs x%d\n", quantity);
  }
  else
  {
     printf("Invalid choice!\n");
     price = 0;
   }
 totalprice += price;

 printf("\nDo you want to buy more items? (y/n): ");
  scanf(" %c", &more);

  }
while (more == 'y');

 if (totalprice <= 100)
 {
 deliverycharge=40;
 printf("deliverycharge = 40");
 }
else
{
  deliverycharge=70;
  printf("deliverycharge = 70");
}
```

```
  printf("\nEnter the name:");
  scanf("%s",&name);
  printf("Enter the mobileno:");
  scanf("%s",&mobileno);
  printf("Enter the address:");
  scanf("  %[^\n]",address);
  finalamount = totalprice + deliverycharge;
  printf("\n-------------------------------");
  printf("\n          BILL");
  printf("\n-------------------------------");
  printf("\nCUSTOMER NAME:%s\n",name);
  printf("MOBILE NO:%s\n",mobileno);
  printf("ADDRESS:%s\n",address);
  printf("\nTotal Item Price : ₹%.lf", totalprice);
  printf("\ndeliverycharge,:₹%d", deliverycharge);
  printf("\nFinal Amount : ₹%.lf", finalamount);
  printf("\nThank you for shopping with us !\n");
  return 0;
}
```

```
Welcome to our store
-------------------------------
   ONLINE GROCERY SHOPPING
-------------------------------

Available Items:
1. Rice - ₹50/kg
2. Sugar - ₹35/kg
3. Oil - ₹135/litre
4. Milk - ₹80/litre
5. Eggs - ₹7 each

Enter your choice (1-5): 3
Enter quantity: 2
Added Oil x2

Do you want to buy more items? (y/
n): n
deliverycharge = 70
Enter the name:bhagya
Enter the mobileno:9876544210
Enter the address:gandhi nagar,amp

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           🧾BILL
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CUSTOMER NAME:bhagya
MOBILE NO:9876544210
ADDRESS:gandhi nagar,amp

Total Item Price : ₹270
deliverycharge,:₹70
Final Amount : ₹340
Thank you for shopping with us !
```

THE END