```
#include <stdio.h>
#include <string.h>

#define MAX_ITEMS 100

struct Product {
   char name[50];
   float rate;
   int quantity;
   float amount;
};

// Clear Purchase Product (Bill)
void clearItems(int *numItems)
{
  *numItems = 0;
}


// Print Product Master List
void printProductList() {
   printf("\nProduct List\n");
   printf("---------------------\n");
   printf("1. Tea         Rs.10\n");
   printf("2. Coffee      Rs.15\n");
```

```
    printf("3. Cool Drinks  Rs.20\n");
    printf("4. Exit\n");
    printf("---------------------\n");
}


// Add Purchase Product
void addItems(struct Product items[], int *numItems) {
    char chyn = 'y';
    while (chyn == 'y' || chyn == 'Y') {
        int prdopt;
        printProductList();
        printf("Enter your Product Option: ");
            int ch2;
            prdopt = 0;
            do {
                    ch2 = getchar();
                    // Checks the ASCII code of '
                    // digits 0 to 9
                    if (ch2 >= 48 && ch2 <= 57) {
                            // To make a digit
                       prdopt = prdopt * 10 + (ch2 - 48);
                    }
                    // 13 is carriage return it breaks
                    // and return the input
```

```
                else if (ch2 == '\n')
                {
                        break;
                }
    else
    {
       prdopt = 12;
    }
     } while (1);
if (prdopt == 1) {
    strcpy(items[*numItems].name, "Tea");
    items[*numItems].rate = 10.0;
} else if (prdopt == 2) {
    strcpy(items[*numItems].name, "Coffee");
    items[*numItems].rate = 15.0;
} else if (prdopt == 3) {
    strcpy(items[*numItems].name, "Cool Drinks");
    items[*numItems].rate = 20.0;
} else if (prdopt == 4) {
    break;
} else {
    printf("Invalid option. Please try again.\n");
    continue;
}
int prdqty;
```

```
printf("Enter the number of [%s] quantity: ",items[*numItems].name);
    int ch3;
    prdqty = 0;
    do {
            ch3 = getchar();
            // Checks the ASCII code of '
            // digits 0 to 9
            if (ch3 >= 48 && ch3 <= 57) {
                    // To make a digit
               prdqty = prdqty * 10 + (ch3 - 48);
            }
            // 13 is carriage return it breaks
            // and return the input
            else if (ch3 == '\n')
            {
                    break;
            }
  else
  {
     prdqty = 101;
  }
    } while (1);
if (prdqty <= 0 || prdqty > 100) {
  printf("Invalid quantity. Please enter [1 to 100].\n");
  continue;
```

```
        }
        items[*numItems].quantity = prdqty;
        items[*numItems].amount = items[*numItems].rate * items[*numItems].quantity;
        (*numItems)++;
    }
}

// View Purchase Product
void viewPurchasedItems(struct Product items[], int *numItems) {
    if (*numItems == 0) {
        printf("\nNo Purchase Product Avilable !!!\n");
    } else {
        printf("\nThe products are:\n");
        printf("---------------------------------------\n");
        printf("%-5s %-15s %15s\n", "Sno", "Product", "Quantity");
        printf("---------------------------------------\n");
        for (int i = 0; i < *numItems; i++)
        {
            printf("%-5d %-15s %15d\n", i+1, items[i].name, items[i].quantity);
        }
        printf("---------------------------------------\n");
    }
}
```

```
// Delete Purchase Product Particular Row
void deletePurchasedItems(struct Product items[], int *numItems) {
   if (*numItems == 0)
   {
      printf("\nNo Purchase Product Avilable !!!\n");
      return;
   }
   else
   {
      printf("\nThe products are:\n");
      printf("---------------------------------------\n");
      printf("%-5s %-15s %15s\n", "Sno", "Product", "Quantity");
      printf("---------------------------------------\n");
      for (int i = 0; i < *numItems; i++)
      {
         printf("%-5d %-15s %15d\n", i+1, items[i].name, items[i].quantity);
      }
      printf("---------------------------------------\n");
   }
   char chynd = 'y';
   while (chynd == 'y' || chynd == 'Y') {
      int prdsno;
      printf("Enter the Sno number [ 1 to %d ] for Delete [ 0 - for Exit ]: ",*numItems);
            int ch3;
            prdsno = 0;
```

```
    do {
    ch3 = getchar();
    // Checks the ASCII code of '
    // digits 0 to 9
    if (ch3 >= 48 && ch3 <= 57) {
            // To make a digit
       prdsno = prdsno * 10 + (ch3 - 48);
    }
    // 13 is carriage return it breaks
    // and return the input
    else if (ch3 == '\n')
    {
            break;
    }
   else
   {
      prdsno = 101;
   }
    } while (1);
if (prdsno == 0)
{
   return;
}
if (prdsno <= 0 || prdsno > (*numItems))
{
```

```
            printf("Invalid Sno Number.\n");
            continue;
        }

        for (int i = prdsno -1; i < (*numItems); i++)
        {
            items[i] = items[i+1];
        }
        (*numItems)--;
        printf("|Product Deleted|\n");
        return;
    }
}


// View Invoice Bill
void PrintBill(struct Product items[], int *numItems) {
    float sum = 0;
    if (*numItems == 0) {
        printf("\nNo Purchase Product Avilable !!!\n");
    }
    else
    {
        printf("\n              ||L³ CAFE E-INVOICE CREATOR||              \n");
        printf("-----------------------------------------------------------\n");
```

```
        printf("%-15s %15s %15s %15s\n", "Product", "Rate", "Quantity", "Amount");
        printf("-----------------------------------------------------------\n");
        for (int i = 0; i < *numItems; i++)
        {
            printf("%-15s %15.2f %15d %15.2f\n", items[i].name, items[i].rate, items[i].quantity,
items[i].amount);
            sum += items[i].amount;
        }
        printf("-----------------------------------------------------------\n");
        printf("                              Total: %15.2f\n", sum);
        printf("-----------------------------------------------------------\n");
    }
}

int main() {
    struct Product items[MAX_ITEMS];
    char pro[MAX_ITEMS][50];
    float total[MAX_ITEMS];
    int numItems = 0;
    float sum = 0;
    int opt = 0;
    while (1) {
        printf("\nMain Menu\n");
        printf("==============================\n");
        printf("1. Add Product\n");
        printf("2. View Purchased Products List\n");
```

```
printf("3. Print Bill\n");
printf("4. Delete Product\n");
printf("5. Clear Bill\n");
printf("6. Exit\n");
printf("==============================\n");
printf("Enter your Option [1 to 6]: ");
    int ch1;
    opt = 0;
    do {
            ch1 = getchar();
            // Checks the ASCII code of '
            // digits 0 to 9
            if (ch1 >= 48 && ch1 <= 57) {
                    // To make a digit
               opt = opt * 10 + (ch1 - 48);
            }
            // 13 is carriage return it breaks
            // and return the input
            else if (ch1 == '\n')
            {
                    break;
            }
  else
  {
     opt = 12;
```

```
    }
      } while (1);
if (opt == 1) {
    addItems(items, &numItems);
}
else if (opt == 2) {
    viewPurchasedItems(items, &numItems);
}
else if (opt == 3) {
    PrintBill(items, &numItems);
}
else if (opt == 4) {
    deletePurchasedItems(items, &numItems);
}
else if (opt == 5) {
    clearItems(&numItems);
    printf("|Products are Cleared|\n");
}
else if (opt == 6) {
    printf("||Thank You||\n");
    printf("Visit Again! :)");
    break;
}
else {
    printf("Not a Valid Option, try again\n");
```

```
        }
    }
    return 0;
}
```