## C-Task - 8

Write a C code to generate customer bill for a store. The bill should contain the details of items, the quantity purchased, discount offered, GST as applicable. The final table along with the amount should be displayed.

## **PROGRAM:**

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  Try to run this program in VSCode for Better Results
  A Sample Input and Output is Given at the End of the Code
  Billing_system.c - A Program to for a billling system of an Ice-cream shop with the output as an bill.
  Input: (1) The Bill Number
       (2) Index number of the item followed by the quantity of the input
       (3) If the Input is finished, enter '0 0' to end the input and print output
  Output: A computer generated Bill of the shop with GST included.
   Step1: Take all the input and then store it in an array
   Step2: Calculate the prices as per the quantity and get a total amount
   Step3: Print the prices along with the item name and print total
   Step4: Calculate Discount and GST to be applied and print it in the separate slab
 include <stdio.h>
                    // For Standard Input Type
                     // For Getting Current Time
 include <time.h>
 include <math.h>
                    // For Getting Round_off value
void menu(void);
                    // For printing The menu and accepting output
int price[55] = {50, 60, 50, 60, 75, 60, 75, 60, 75, 80, 75, 80, 80, 100, 120, 125, 150, 46, 94, 224, 80, 300, 20, 15, 23, 29, 10, 14,
250, 330, 250, 330, 370, 330, 360, 330, 360, 360, 360, 330, 100, 40, 103, 90, 115, 50, 20, 20, 20, 20, 20, 20, 12, 50, 20};
prices initialized
   above is complete price list
char names[55][50] = {"Vanilla Ice Cream
                                                           "Butter Scotch Ice Cream
                                                                                                    "Strawberry Ice
                       ", "Chocolate Ice Cream
                                                                ", "Raj Bhog Ice Cream
                                                                                                         ", "Alphonso Mango
Cream
Ice Cream
                          "ChocoChips Ice Cream
                                                                   "Green Pista Ice Cream
                                                                                                           "Brownie Blast
Ice Cream
                        ", "Kesar Pista Ice Cream
                                                                 ", "Cookies and Cream Ice Cream
                                                                                                          , "Amul Dark
                                                                     ", "Amul Fruit and Nut Chocolate Bars
                            ", "Amul Milk Chocolate Bars
Chocolate Bars
Chocominis Truffles
                                                                                                                    "Amul
                                ", "Amul Sugar Free Dark Chocolate Bars
                                                                           "Amul Fruit N Nut Chocolate Bars 150g
Pasteurised Salted Butter 100g
                                  "Amul Pasteurised Salted Butter 200g
                                                                         ", "Amul Pasteurised Salted Butter 500g
                                   "Amul Fresh Paneer 1kg
                                                                           "Amul Masti Dahi 200g CUP
Fresh Paneer 200g
                                ", "Amul Milk Taaza 500ml
                                                                         ", "Amul Milk Gold 500ml
Masti Dahi 200g PACKET
                                                                         ", "Vanilla Ice Cream (Family Pack)
                                ", "Amul Cheese Cube 25g
Cheese Slice 20g
                                     ", "Strawberry Ice Cream (Family Pack)
'Butter Scotch Ice Cream (Family Pack)
                                                                              ", "Chocolate Ice Cream (Family Pack)
'Raj Bhog Ice Cream (Family Pack)
                                     ", "Alphonso Mango Ice Cream (Family Pack)
                                                                              ", "ChocoChips Ice Cream (Family Pack)
'Green Pista Ice Cream (Family Pack) ", "Brownie Blast Ice Cream (Family Pack)
                                                                                "Shahi Anjir Ice Cream (Family Pack)
'Cookies and Cream Ice Cream (Family Pack) ", "Tutti Fruiti Ice Cream (Family Pack)
                                                                                , "Amul Elaichi Shrikhand 500g
                                     ", "Amul Kesar Shrikhand 500g
'Amul Elaichi Shrikhand 200g
                                                                              ", "Amul Mango Shrikhand 500g
                                                                                "Amul Kool Elaichi
                                        "Amul Badam Pista Shrikhand 200g
Amul Badam Pista Shrikhand 500g
                                                                              ", "Amul Kool Koko - Chocolate Milk
'Amul Kool Badam
                                        "Amul Kool Kesar
 Amul Kool Rose Flavour
                                                                              ", "Amul Masti ButterMilk 200ml
                                     ", "Amul Kool Cafe
                                    ", "Amul Lassi
'Amul Masti ButterMilk 1L
                                                                                      // All Product Names Initialized
       above is list of all product name with respect to its price
int inp[60][2], item_count; // Global Variables
void main() {
   int i, sum = 0, total_value = 0, value, n;
   float ori_am, disc;  // ori_am for original value in gst and disc has value of discount
   // For Current time
   time_t t;
                // for getting current date and time
   time(&t);
   printf("Enter The BILL Number: ");
   scanf("%d", &n);
   menu();
    system("cls");
   printf("-----\n");
   printf("-----\n");
                                                TAX INVOICE
   printf("
   printf(" Bill No.:- %d
                                                 Bill Date:- %s \n", n, ctime(&t));
   printf(" Item
                                                 Quantity
                                                                        Rate
                                                                                            Value\n");
   printf("------------------------------\n");
```

```
for (i = 0; i < item_count; i++) {</pre>
                        // getting total number of quantity
  sum = sum + inp[i][1];
    total_value = total_value + value;
                                  // getting total value
                                %d
     printf(" %d) %s%d
                                             %d\n", i+1, names[inp[i][0]], inp[i][1], price[inp[i][0]], value);
  printf("-----\n");
  printf(" ITEMS: %d
                                  OUANTITY: %d
                                                             TOTAL VALUE: %d \n", i, sum,
total_value);
  GST DETAILS
  printf("
  printf(" GST
                     Original
                                     CGST
                                                                   Total\n");
  printf(" IND
                    Amount
                                                                 Amount\n");
                                                                  ----\n");
  printf("-----
  printf(" 1)
                     %.2f
                                                                    %d\n", ori_am, '%', '%',
total_value);
  %.2f\n", '%', disc);
  printf(" Discount @2%c
  printf(" ROUND OFF AMOUNT
                                                                   %.1f\n", round(disc));
  printf(" AMMOUNT TO BE PAID: %.2f \n", round(disc));
  void menu(void) {
              // Function for displaying menu
  int i;
  \n");
  n\n");
  printf(" ICE CREAMS
                                     FAMILY PACKS\n\n");
  printf("(1) Vanilla Ice Cream
                                         (29) Vanilla Ice Cream (Family Pack)\n");
  printf("(2) Butter Scotch Ice Cream
                                         (30) Butter Scotch Ice Cream (Family Pack)\n");
  printf("(3) Strawberry Ice Cream
                                         (31) Strawberry Ice Cream (Family Pack)\n");
  printf("(4) Chocolate Ice Cream
                                         (32) Chocolate Ice Cream (Family Pack)\n");
  printf("(5) Raj Bhog Ice Cream
                                         (33) Raj Bhog Ice Cream (Family Pack)\n");
  printf("(6) Alphonso Mango Ice Cream
                                           (34) Alphonso Mango Ice Cream (Family Pack)\n");
  printf("(7) ChocoChips Ice Cream
                                         (35) ChocoChips Ice Cream (Family Pack)\n");
  printf("(8) Green Pista Ice Cream
                                         (36) Green Pista Ice Cream (Family Pack)\n");
                                         (37) Brownie Blast Ice Cream (Family Pack)\n");
  printf("(9) Brownie Blast Ice Cream
  printf("(10) Kesar Pista Ice Cream
                                         (38) Shahi Anjir Ice Cream (Family Pack)\n");
  printf("(11) Cookies and Cream Ice Cream
                                            (39) Cookies and Cream Ice Cream (Family Pack)\n");
                                (40) Tutti Fruiti Ice Cream (Family Pack)\n\n");
  printf("
  printf("......\
  printf(" CHOCOLATES
                                      SHRIKHANDS\n\n");
                                           (41) Amul Elaichi Shrikhand 500g (100)\n");
  printf("(12) Amul Dark Chocolate Bars
                                           (42) Amul Elaichi Shrikhand 200g (40)\n");
  printf("(13) Amul Milk Chocolate Bars
  printf("(14) Amul Fruit and Nut Chocolate Bars
                                              (43) Amul Kesar Shrikhand 500g (103)\n");
  printf("(15) Amul Chocominis Truffles
                                           (44) Amul Mango Shrikhand 500g (90)\n");
  printf("(16) Amul Sugar Free Dark Chocolate Bars
                                              (45) Amul Badam Pista Shrikhand 500g (115)\n");
                                             (46) Amul Badam Pista Shrikhand 200g (50)\n\n");
  printf("(17) Amul Fruit N Nut Chocolate Bars 150g
  printf(".....
n");
  printf("
          Other Items
                                      DRINKS\n\n");
  printf("(18) Amul Pasteurised Salted Butter 100g
                                              (47) Amul Kool Elaichi\n");
  printf("(19) Amul Pasteurised Salted Butter 200g
                                              (48) Amul Kool Badam\n");
  printf("(20) Amul Pasteurised Salted Butter 500g
                                              (49) Amul Kool Kesar\n");
  printf("(21) Amul Fresh Paneer 200g
                                         (50) Amul Kool Koko - Chocolate Milk\n");
  printf("(22) Amul Fresh Paneer 1kg
                                         (51) Amul Kool Rose Flavour\n");
  printf("(23) Amul Masti Dahi 200g CUP (20)
                                            (52) Amul Kool Cafe\n");
  printf("(24) Amul Masti Dahi 200g PACKET (15)
                                              (53) Amul Masti ButterMilk 200ml (12)\n");
  printf("(25) Amul Milk Taaza 500ml
                                         (54) Amul Masti ButterMilk 1L (50)\n");
  printf("(26) Amul Milk Gold 500ml
                                         (55) Amul Lassi\n");
  printf("(27) Amul Cheese Slice 20g (10)\n");
  printf("(28) Amul Cheese Cube 25g (14)\n");
  printf("------
  printf("\nEnter the number of item and quantity: \n");
  for (i = 0; inp[i-1][0] != (-1); i++) {
     scanf("%d%d", &inp[i][0], &inp[i][1]);  // Taking input from user
     inp[i][0]--;
               // if item no. in input is 28 then in the array it is 27. So decreasing the input value by 1
               // For removing the final input 0 0
  item_count = i;
              // assigning global variable item_count with the value of i
```

```
//
/*
//
Sample Input:
Enter The BILL Number: 90

Enter the number of item and quantity:
23 5
55 4
17 1
0 0

OUTPUT:
The Output is attached in the same folder below the code
*/
//
// EDF
```

## INPUT:

Enter The BILL Number: 69

Enter the number of item and quantity:

23 5

55 4

17 1

00

	AML	JL GODHRA				
	TAX	INVOICE				
Bill No.:- 69		Bil	Bill Date:- Thu Jan 27 15:50:33 202			
Item		Quanti	Quantity		Value	
1) Amul Masti Dahi 200g CUP		5		20	100	
2) Amul Lassi				20	80	
3) Amul Fruit	N Nut Chocolate Bars 1	150g 1		150	150	
ITEMS: 3 QUA		======= UANTITY: 10	гиту: 10 тот		VALUE: 33	
=======	GST	DETAILS	======	=======	======	
GST	Original	CGST	SGST	To	 ıtal	
IND	Amount	5551	3031	Total Amount		
1)		5%	5%	33	0	

ROUND OFF AMOUNT	323.0
	=======================================
AMMOUNT TO BE PAID: 323.00	