**ACTIVITY 3**

**AIM :**

To create a C program for making a bill.

**THEME :**

Design a system to generate electricity bills based on the units consumed by customer . The system should accept customers information including customer’s name , ID , customer’s telephone number , customers type (domestic/ commercial) & no. of units consumed. Implement functions to handle input , calculate the bill & display it is in proper format. The bill should include all relevant details mentioned above.

**RESEARCH:**

In real-world restaurant systems, billing is a crucial part of customer service.

Restaurants use software to:

* Record orders
* Calculate totals
* Apply discounts or taxes
* Manage different payment methods

This project simulates a basic version of such a system using C, which helps us understand how billing logic works.

<https://www.tutorialspoint.com/cprogramming/index.htm>

This web site helped me and showed me some examples from which i learnt more about this program.

<https://www.cprogramming.com/>

From this web site i got some articles and tips for my program.

<https://www.decodeschool.com/C-Programming/Branching/C-Program-to-calculate-different-discount-for-different-Bill-amount?utm_source=chatgpt.com>

From this web site i got some examples of applying discount.

**HOW IT WORKS :**

**Customer Details**:  
 The program first collects the customer's:

* Name
* Email ID
* Mobile Number

**Item Entry**:  
 It asks the user to input the price of 4 food items individually.

**Total Calculation**:  
 It calculates the total bill by summing all four item prices.

**Payment Mode**:

* User chooses payment by **Card** or **Cash**.
* If **Card** is selected, it simulates card number and password entry.
* For **Cash**, it simply acknowledges the payment.

**Discount Logic**:

* If the total bill is ₹10,000 or more, a **5% discount** is applied.
* The final discounted total is shown.

**Thank You Message**:

* Prints a friendly thank-you note and invites the customer to visit again.
* **Variables**: To store prices, customer info, total, etc.
* **Input/Output**: Using scanf() and printf()
* **Conditionals**: if-else for checking payment method and discount eligibility
* **Arithmetic Operations**: For summing prices and applying discount
* **Strings and Arrays**: For customer name and email

**CODE:**

#include <stdio.h>

int main(){

int n1, n2, n3, n4, n5, n6, n7, n8, discount=0,sum;

char name[100], id[100];

printf(" WELCOME TO OUR RESTRAUNT\n\n");

printf("Enter coustomers name:");

scanf("%s", name);

printf("Enter coustomers id :");

scanf("%s", id);

printf("Enter coustomers mobile no:");

scanf("%d", &n5);

printf("\n\n\n");

printf("Enter amount of your first food item:");

scanf("%d", &n1);

printf("-------------------------------------------\n");

printf("Enter AMOUNT OF YOUR SECOND FOOD ITEM:");

scanf("%d", &n2);

printf("-------------------------------------------\n");

printf("Enter amount of your third food item:");

scanf("%d", &n3);

printf("-------------------------------------------\n");

printf("Enter amount of your food item:");

scanf("%d", &n4);

printf("-------------------------------------------\n");

sum = n1+n2+n3+n4;

printf("Your total bill is %d RS. \n\n", sum);

printf("Payment via card or cash or ?\n");

printf("Press 1 for card and press 0 for cash:");

scanf("%d", &n6);

if(n6>0){ printf("CARD PAYMENT ACTIVATED\n\n");

printf("Enter card number:\n");

scanf("%d", &n7);

printf("Password:");

scanf("%d", &n8);

printf("Payment succesfull!!!\n");

}

else{ printf("Cash payment.\n");}

discount = sum - (sum\*5/100);

if(sum>=10000){ printf("You get discount of 5% \n");

printf("Your total bill is %d\n", discount);

}

printf("Visit us again.\n");

printf("Follow us on intragram @everydayeat\n");

printf("-------------------------------------------\n");

printf("-------------------------------------------\n");

}

**Outputs:**

1) WELCOME TO OUR RESTRAUNT

Enter coustomers name:prathmesh.

Enter coustomers id :50

Enter coustomers mobile no:20202020

Enter amount of your first food item:50000

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Enter AMOUNT OF YOUR SECOND FOOD ITEM:5000

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Enter amount of your third food item:6000

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Enter amount of your food item:7000

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Your total bill is 68000 RS.

Payment via card or cash or ?

Press 1 for card and press 0 for cash:1

CARD PAYMENT ACTIVATED

Enter card number:

0202

Password:0000

Payment succesfull!!!

You get discount of 5%

Your total bill is 64600

Visit us again.

Follow us on intragram @everydayeat

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=== Code Execution Successful ===

2)WELCOME TO OUR RESTRAUNT

Enter coustomers name:prathmesh

Enter coustomers id :052032

Enter coustomers mobile no:55555555

Enter amount of your first food item:400

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Enter AMOUNT OF YOUR SECOND FOOD ITEM:500

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Enter amount of your third food item:300

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Enter amount of your food item:700

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Your total bill is 1900 RS.

Payment via card or cash or ?

Press 1 for card and press 0 for cash:1

CARD PAYMENT ACTIVATED

Enter card number:

1

Password:2526

Payment succesfull!!!

Visit us again.

Follow us on intragram @everydayeat

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=== Code Execution Successful ===

3) WELCOME TO OUR RESTRAUNT

Enter coustomers name:prathmesh

Enter coustomers id :6

Enter coustomers mobile no:0000000000

Enter amount of your first food item:600

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Enter AMOUNT OF YOUR SECOND FOOD ITEM:400

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Enter amount of your third food item:500

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Enter amount of your food item:300

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Your total bill is 1800 RS.

Payment via card or cash or ?

Press 1 for card and press 0 for cash:0

Cash payment.

Visit us again.

Follow us on intragram @everydayeat

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=== Code Execution Successful ===