HOTEL BILL

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1.Research=

A Hotel Bill System is a computerized method for calculating and generating bills for guests during checkout. It simplifies record-keeping, ensures accuracy in financial transactions, and improves customer experience. Traditionally, hotel billing was done manually, which was time-consuming and error-prone. With the use of programming and automation, billing can now be done instantly.

Reffered link =

<https://portal.billgenerator.in/hotel-bill>

<https://apnabillbook.com/invoice-formats/hotel-bill-format?srsltid=AfmBOopoqDXH5NVo9YYOln0BnQ2fRYXQP4ZjCA6qrawMGr4tjv2EDAUP>

2.analyze=

In this system, the required inputs include the customer’s name, room number, number of days stayed, and rate per day. These details are processed by multiplying the number of days with the rate per day to calculate the total amount payable by the customer. The program then displays a formatted hotel bill that includes all the relevant information such as the customer’s details, room number, duration of stay, rate per day, and the total bill amount. The output is simple and easy to understand, providing both the customer and the hotel staff with a clear record of payment. The system’s main functions include data input, bill calculation, and bill display, making it highly efficient and user-friendly. Since it can be implemented easily using basic C programming and minimal hardware requirements, the system is cost-effective, reliable, and feasible for small and medium-sized hotels to automate their billing process.

3.Ideate=

A] problem statement=

In many hotels, billing is still handled manually, which often leads to errors, delays, and poor customer experience. Staff members may make calculation mistakes or struggle to maintain accurate records, especially during busy periods. This manual process also makes it difficult to generate neat and consistent bills for customers. Therefore, there is a need for a simple and efficient computerized system that can automatically generate accurate hotel bills based on the customer’s details, room rate, and duration of stay.

B]algorithm=

1. Start

2. Display a welcome message for the hotel billing system.

3. Input customer details:

Customer Name

Room Number

Number of Days Stayed

Rate per Day

4. Process:

Calculate the total bill using the formula:

Total = Number of Days × Rate per Day

5. Output:

Display the formatted hotel bill containing:

Customer Name

Room Number

Number of Days Stayed

Rate per Day

Total Amount

6. Display a thank-you message.

7. End

4]BUILD=

#include <stdio.h>

int main() {

int roomNo, days;

float ratePerDay, totalAmount;

char name[50];

printf("Enter Customer Name: ");

scanf("%s", name);

printf("Enter Room Number: ");

scanf("%d", &roomNo);

printf("Enter Number of Days Stayed: ");

scanf("%d", &days);

printf("Enter Rate per Day: ");

scanf("%f", &ratePerDay);

totalAmount = days \* ratePerDay;

printf("\n========== HOTEL BILL ==========\n");

printf("Customer Name : %s\n", name);

printf("Room Number : %d\n", roomNo);

printf("Days Stayed : %d\n", days);

printf("Rate per Day (Rs) : %.2f\n", ratePerDay);

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

printf("Total Amount (Rs) : %.2f\n", totalAmount);

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

printf("Thank you for staying with us!\n");

return 0;

}

5]testing=

Enter Customer Name: TEJAS

Enter Room Number: 404

Enter Number of Days Stayed: 3

Enter Rate per Day: 100

========== HOTEL BILL ==========

Customer Name : TEJAS

Room Number : 404

Days Stayed : 3

Rate per Day (Rs) : 100.00

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Total Amount (Rs) : 300.00

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Thank you for staying with us!

=== Code Execution Successful ===

6]implementation=