- **BTECH 1st year CSE**
- **SEC: - B**

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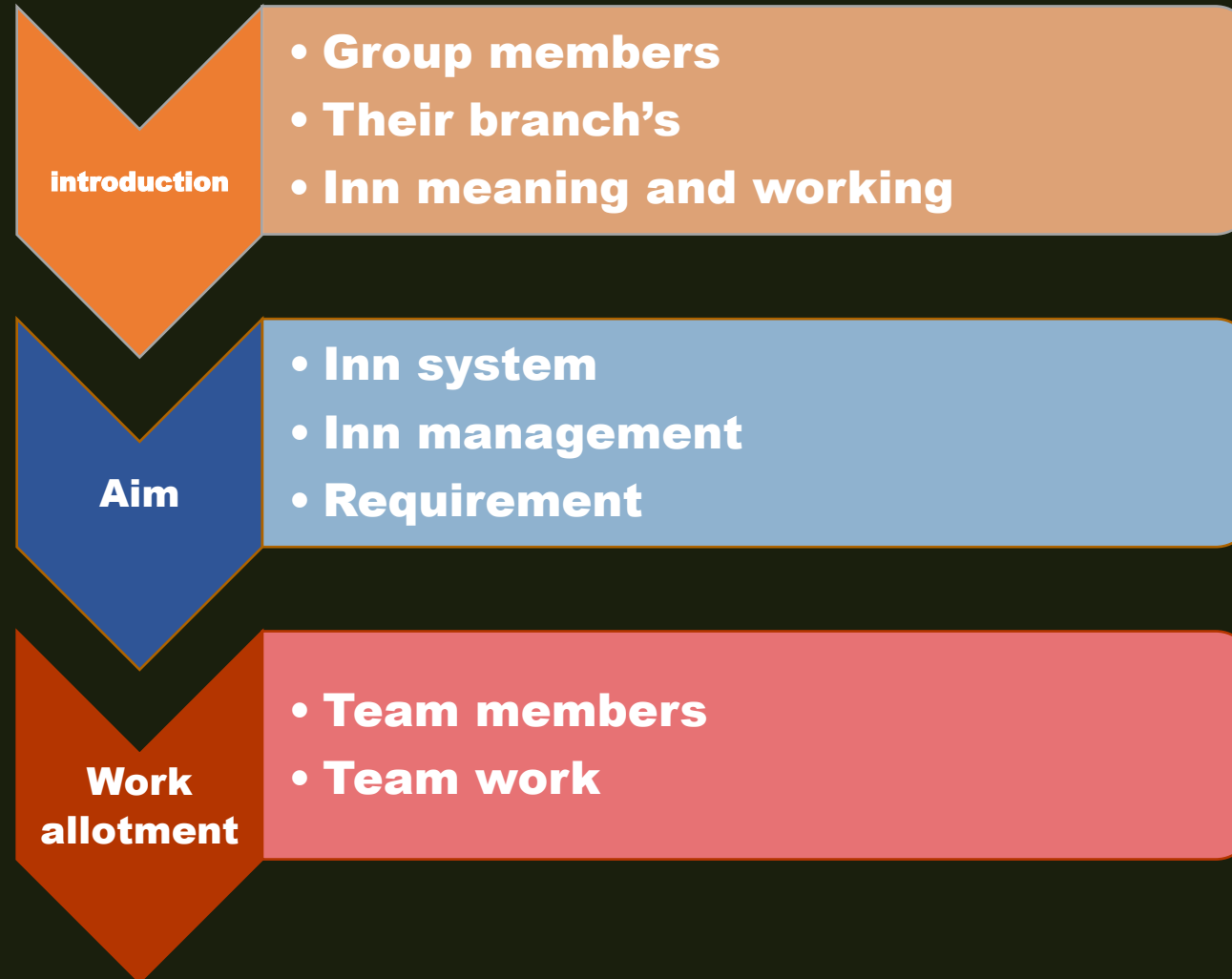- **SEC: -B**

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Final review contains 2 modules consists of
different topics

Module 1: consists review 1 presentation
Module 2: consists review 2 presentation

INTRODUCTION TO MODULE 1

introduction
- Group members
- Their branch's
- Inn meaning and working

Aim
- Inn system
- Inn management
- Requirement

Work allotment
- Team members
- Team work

Inn refers to ……..

The term "inn" historically characterized a rural hotel which provided lodging, food and refreshments, and accommodations for travelers' horses.

Inn managements are responsible for managing employees and for planning, marketing , coordinating and administering lodging and dining services such as catering and accommodation facilities.

"The main aim of introducing an inn management system is to make the customer free to select their requirements by providing multiple options like booking dining slot to dine in the inn or customer can book the accommodation with their requirements that deals with both management and customer registration and billing, and for management prices editing for their choice of lodging or dining facilities. "

this project is to give the program access to both the management and the customers this project include two types of users

User1 "employ"

1.)Employ can use this program to edit the prices of both dining and lodging multiple times.

2.)Employ access the benefits of user 1 called "employ" require security permission before he enters to the user called "employ" blog.

User 2 "customer"

1.)customers will have so many benefits to choose the facilities provided by the "9 decades grand inn" like the type of room, type of environment condition, dining, type of food, etc.

2.)customers get the final bill for which they selected in the user 2 blogs.

There are two types of research procedure

logical research ?

Regarding rates and type of rooms provided and type of food provided etc.

Technical research ?

collecting textbooks related to the basics of c language from the internet to get technical support to write the c program and from library books.

Operating system	**windows 7,9,10, ubuntu, IOS**
Memory	**4 GB ram or more**
IDE	**Online C compiler**
Programming language	**C language**
Hard disk space	**Minimum 128 GB data usage**

MODULE 2

Introduction to module 2

01
Inn management system
(mini project)
Algorithm

02
Code
for
Inn management system

03
Design of program
Management of program

1. Algorithm for Inn management system (Mini project)

Step 1: start

Step 2: print the introduction of inn

Step 3: declaration of goto function by the name intro:

Step 4: input by user to his choice customer and employee by 1 and 2 numerical

Step 5: if input is 2 or user is 2

Step 6: calling function opens employlogin () {(control transfer to called function)}

Step7: if input is 1 or user is 1 customer blog opens

Step8: input customer name

Step9: input mobile number

Algorithm 2:

(Starts after the input 1 in user choice called lodging)

Step1: start

Step2: control transfer to case 1

Step3: input type of room user choice 1 or 2

Step 4: input type of room condition user choice 1 or 2

Step5: input number of rooms

Step6: input user choice (dinning or lodging) 1 or 2

Step7: if food is 1 or dining is user choice

Step8: input type of food 1or 2

Step9: input user choice size 1 or 2

Step10: input members dine

Employlogin ():

Step1: start

Step 2: input name of employee

Step3: input password

Step4: if password is 9999

Step5: input edited prices of customer choices

Step6: else password is rather than 9999

Step7: output "login failed wrong password"

Step8: control transfer to main function starts from where the control transferred to subfunction

Step9: end

Bill ():

Step1: output of introduction of bill function
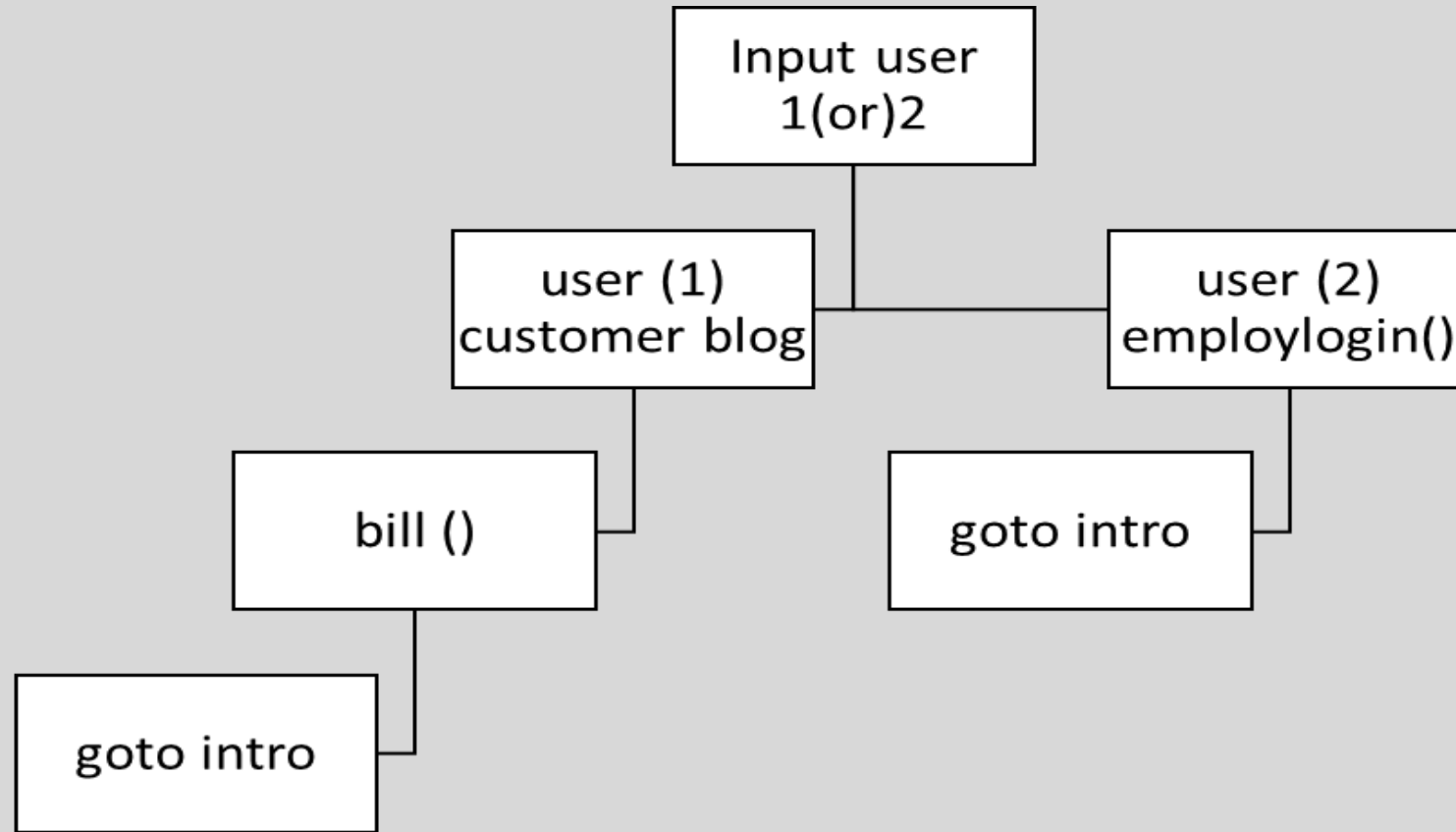
Step2: output customer name

Step3: output mobile number

Step4: output of amount customer should pay

Step5: output welcome details

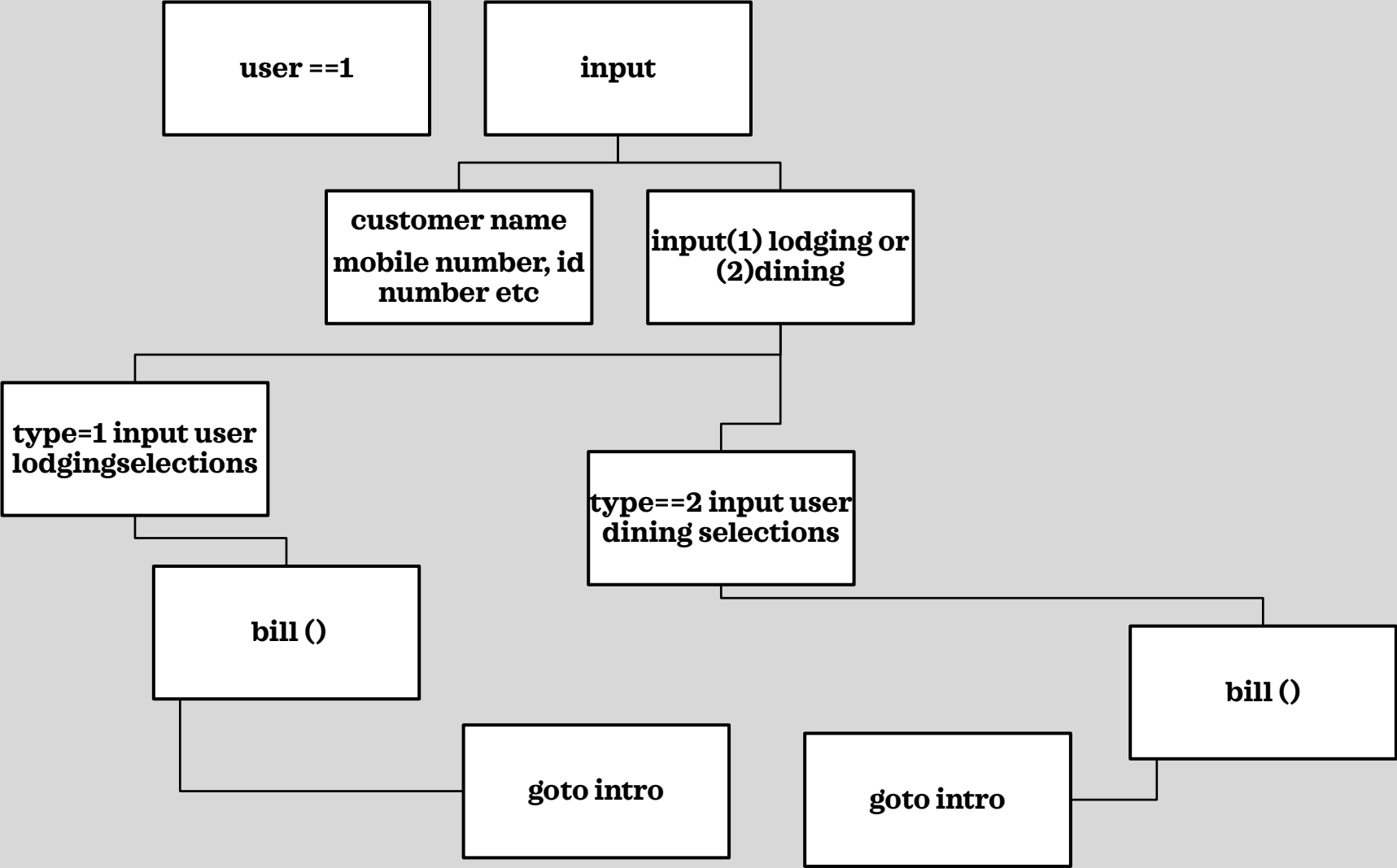Step6: control transfer to main function starts from where the control transferred to subfunction

Step7: end

Block diagram for inn management system

Customer blog
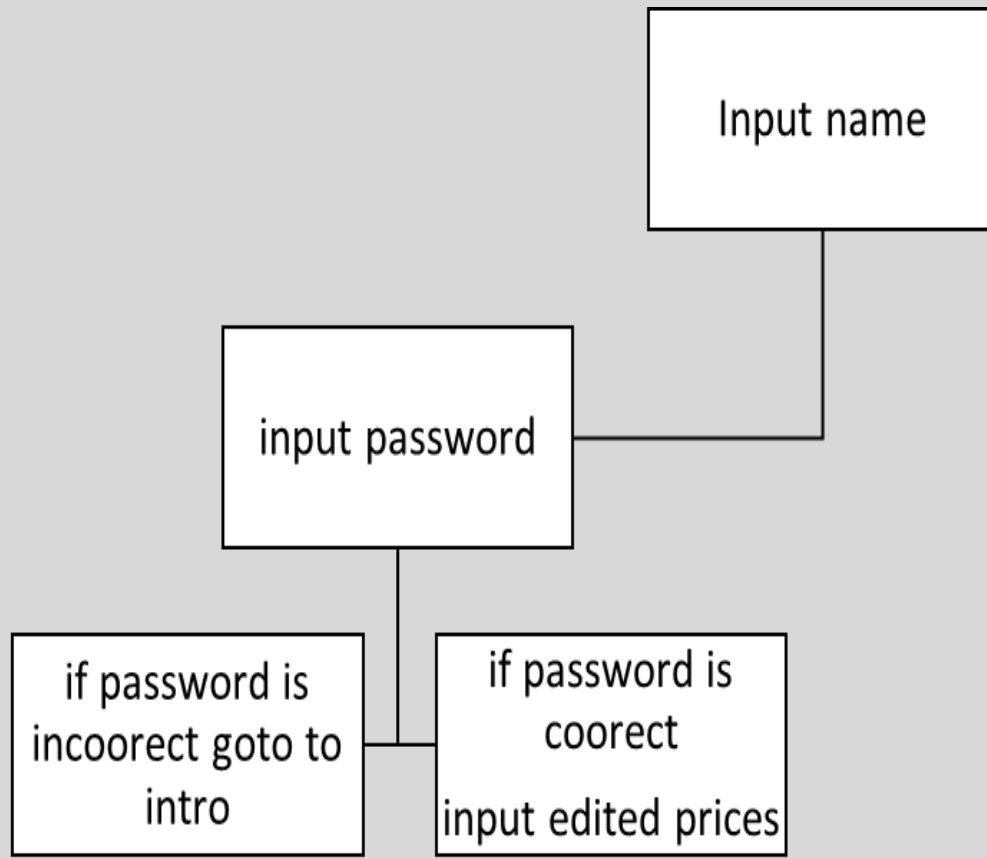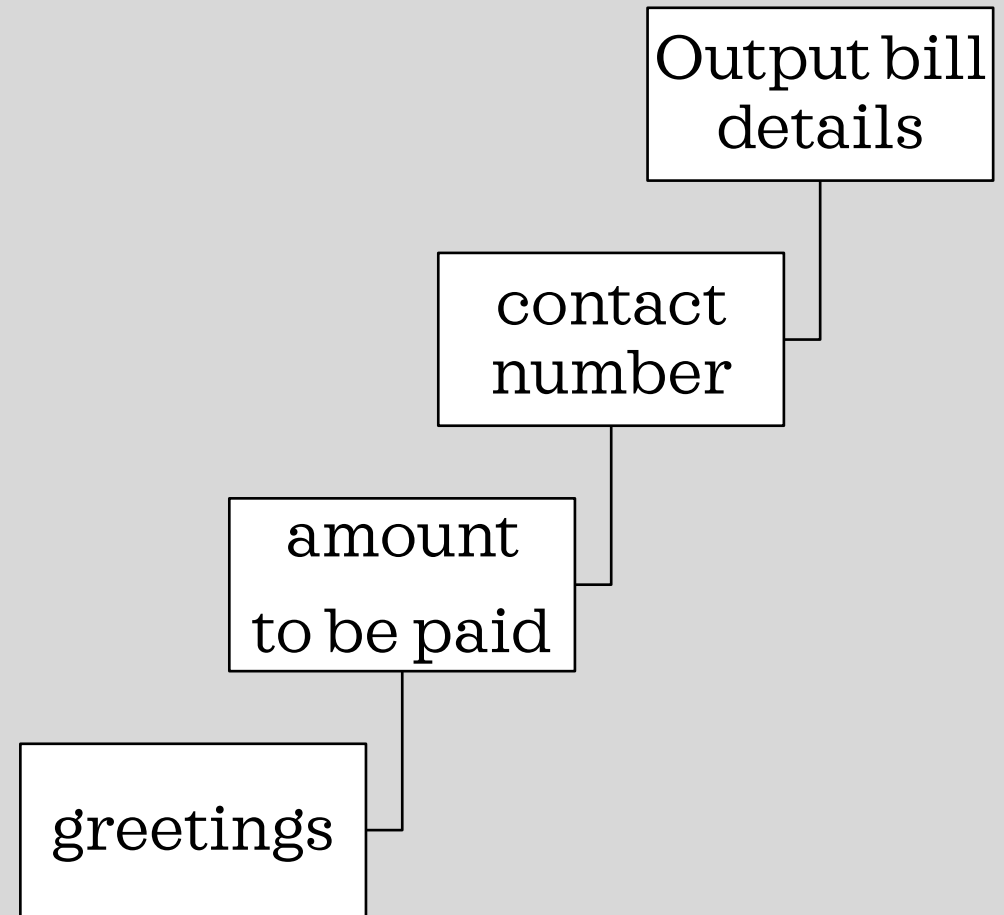
```
user ==1        input
                  |
    ┌─────────────┴─────────────┐
customer name           input(1) lodging or
mobile number, id            (2)dining
number etc                        |
                    ┌─────────────┴─────────────┐
type=1 input user                        type==2 input user
lodgingselections                         dining selections
      |                                          |
    bill ()                                    bill ()
      |                                          |
   goto intro                                goto intro
```

Employlogin()

Bill ( )

Input name

input password

if password is incoorect goto to intro

if password is coorect

input edited prices

Output bill details

contact number

amount to be paid

greetings

Design implementation

```c
#include<stdio.h>
void employlogin();
void bill();
char name,id,size,typeofroom;
int number,idnum,type,rooms,count,sum=0,password=9999,tables,user,food,typeoffood,typeofcondition;
int ac_deluxe = 3000, ac_super_deluxe = 6000, non_ac_deluxe = 2500, non_ac_super_deluxe = 3500, cost_of_food = 2000;
```

```c
intro: printf("\t\t\twelcome to 9 decades grand inn\n");
printf("\nenter user type(1.customer or 2.employ)press 1 or 2  :");
scanf("%d",&user);
```

```c
if(user==2)
{
    employlogin();
    goto intro;
}
```

→(The if statement allows you to control if a program enters a section of code or not based on whether a given condition is true or false. ... One of the important functions of the if statement is that it allows the program to select an action based upon the user's input.)

```c
if(user==1)
{
    printf("customer name   :");
    scanf("%s", &name);
    printf("mobile number  :");
    scanf("%d", &number);
    printf("ID card type   :");
    scanf("%s", &id);
    printf("ID number      :");
    scanf("%d", &idnum);
```

→(A switch statement is a conditional statement used in C programming to check the value of a variable and compare it with all the cases.)

```c
    printf("1.lodging\n2.dinning ");
    printf("\nselect from one of this :");
    scanf("%d", &type);
    switch (type) {
        case 1 :
```

→(Each value is called a case, and the variable being switched on is checked for each switch case.)

```c
case 1 :
    printf("type of room(1.deluxe or 2.super deluxe)press 1 or 2 :");
    scanf("%d",&typeofroom);
    printf("(1.ac or 2.non ac) press 1 or 2 :");
    scanf("%d", &typeofcondition);
    printf("number of rooms :");
    scanf("%d", &rooms);
    printf("(1.dining or 2.without_dining) press 1 or 2:");
    scanf("%d", &food);
    if (food == 1) {
        printf("1.veg or 2.non veg press 1 or 2 :");
        scanf("%d", &typeoffood);
        printf("limited or unlimited        :");
        scanf("%s", &size);
        printf("total members dining        :");
        scanf("%d", &count);
```

→(In switch case 1 this includes price for selected choice like each conditional statements consists of different combinations of customer selections of dining and lodging)

```c
if (typeofroom ==1 && typeofcondition==1) {
    printf("cost of %d deluxe AC rooms    :%d*%d", rooms, rooms, ac_deluxe);
    printf("\ncost of dining for %d members :%d*%d", count, count, cost_of_food);
    sum = (ac_deluxe*rooms) + (cost_of_food * count);
    bill();
    goto intro;
}
if (typeofroom ==1 && typeofcondition==2) {
    printf("cost of %d  deluxe non ac rooms          :%d*%d", rooms, rooms, non_ac_deluxe);
    printf("\ncost of dining for %d members          :%d*%d", count, count, cost_of_food);
    sum = (non_ac_deluxe*rooms) + (cost_of_food * count);
    bill();
    goto intro;
}
if (typeofroom ==2 && typeofcondition==2) {
    printf("cost of %d super deluxe non ac rooms    :%d*%d", rooms, rooms, non_ac_super_deluxe);
    printf("\ncost of dining for %d members          :%d*%d", count, count, cost_of_food);
    sum = (non_ac_super_deluxe*rooms) + (cost_of_food * count);
    bill();
    goto intro;
}
if (typeofroom ==2 && typeofcondition==1) {
    printf("cost of %d super deluxe ac rooms          :%d*%d", rooms, rooms, ac_super_deluxe);
    printf("\ncost of dining for %d members          :%d*%d", count, count, cost_of_food);
    sum = (ac_super_deluxe*rooms) + (cost_of_food * count);
    bill();
    goto intro;
}
```

→(Else conditional statements consists of nested if to give combinations of prices of user selection of only lodging)

```c
else {
    if (food ==2) {
        if (typeofroom ==1 && typeofcondition==1) {
            printf("cost of %d deluxe AC rooms :%d*%d\n", rooms, rooms, ac_deluxe);
            sum = rooms*ac_deluxe;
            bill();
            goto intro;
        }
        if (typeofroom ==1 && typeofcondition==2) {
            printf("cost of %d deluxe non ac rooms :%d*%d\n", rooms, rooms, non_ac_deluxe);
            sum = rooms*non_ac_deluxe;
            bill();
            goto intro;
        }
        if (typeofroom ==2 && typeofcondition==2) {
            printf("cost of %d super deluxe non ac rooms :%d*%d\n", rooms, rooms, non_ac_super_deluxe);
            sum =rooms* non_ac_super_deluxe;
            bill();
            goto intro;
        }
        if (typeofroom ==2 && typeofcondition==1) {
            printf("cost of %d super 2deluxe ac rooms  :%d*%d\n", rooms, rooms, ac_super_deluxe);
            sum = rooms*ac_super_deluxe;
        bill();
        goto intro;
    }
```

```c
                    }
                    break;
            case 2:
                printf("(1.veg or 2.nonveg) press 1or 2  :");
                scanf("%d", &typeoffood);
                printf("limited or unlimited            :");
                scanf("%s", &size);
                printf("total members dining            :");
                scanf("%d", &count);
                printf("reservation of tables count     :");
                scanf("%d",&tables);
                printf("you table is reserved");
                printf("\ncost of dining for %d members :%d*%d", count, count, cost_of_food);
                sum=count*cost_of_food;
                bill();
                goto intro;
            }

    }    return (0);

}
```

→(in this module switch case 2 consists of customer input related to only dining facility here, the prices even be displayed in bill subfunctions.)

→(Here emploglogin () is subfunction consists of user input related rate fixation of different categories of customer selection)

```c
129    void emploglogin()
130    {
131        printf("enter password  :");
132        scanf("%d",&password);
133        if(password==9999)
134        {
135            printf("edit price of ac deluxe              :");
136            scanf("%d", &ac_deluxe);
137            printf("edit price of ac super deluxe        :");
138            scanf("%d", &ac_super_deluxe);
139            printf("edit price of non ac deluxe          :");
140            scanf("%d", &non_ac_super_deluxe);
141            printf("edit price of non ac super deluxe :");
142            scanf("%d", &non_ac_super_deluxe);
143            printf("edit price of dining                 :");
144            scanf("%d", &cost_of_food);
145            printf("\n\n");
146
147        }
148        else {
149            printf("login failed wrong password");
150
151        }
152    }
```

→(here bill () is totally a output subfunction which consists of bill details like amount to be paid. The function is used in all conditional statements and even in swich cases it's a important function in this project .)

```c
150    void bill(){
151        printf("\nbill details :");
152        printf("\ncontact number :%d",number);
153        printf("\ntotal amount should be paid    :%d/-",sum);
154        printf("\n\t\tthanks for choosing to 9 decades grand inn\n");
155    }
```

RESULTS FOR VARIOUS INPUTS BY USER


```
fuctioninnproject                    —  ☐  X
            welcome to 9 decades grand inn

enter user type(1.customer or 2.employee)press 1 or 2  :1
customer name  :group09
mobile number  :1236
ID card type   :adhar
ID number      :909192
1.lodging
2.dining
select from one of this :1
type of room(1.deluxe or 2.super deluxe)press 1 or 2 :1
(1.ac or 2.non ac) press 1 or 2 :1
number of rooms :2
(1.dining or 2.without_dining) press 1 or 2:1
1.veg or 2.non veg press 1 or 2 :1
limited or unlimited          :limited
total members dining          :2
cost of 2 deluxe AC rooms     :2*3000
cost of dining for 2 members :2*2000
bill details :
contact number :1236
total amount should be paid   :10000/-
        thanks for choosing to 9 decades grand inn
                welcome to 9 decades grand inn

enter user type(1.customer or 2.employee)press 1 or 2  :
```

When user ==1 (customer selecting both dining and lodging)

```
fuctioninnproject                    —  ☐  X
            welcome to 9 decades grand inn

enter user type(1.customer or 2.employee)press 1 or 2  :2
enter password  :9999
edit price of ac deluxe            :100
edit price of ac super deluxe      :200
edit price of non ac deluxe        :300
edit price of non ac super deluxe :400
edit price of dining               :500


            welcome to 9 decades grand inn

enter user type(1.customer or 2.employee)press 1 or 2  :2
enter password  :5469
login failed wrong password            welcome to 9 decades grand inn

enter user type(1.customer or 2.employee)press 1 or 2  :
```

When user==2 (employee) user editing the prizes

```
                    welcome to 9 decades grand inn

enter user type(1.customer or 2.employee)press 1 or 2  :1
customer name  :group09
mobile number  :1236
ID card type   :adhar
ID number      :909192
1.lodging
2.dining
select from one of this :2
(1.veg or 2.nonveg) press 1or 2  :1
limited or unlimited             :limited
total members dining             :3
reservation of tables count      :2
you table is reserved
cost of dining for 3 members :3*2000
bill details :
contact number :1236
total amount should be paid   :6000/-
             thanks for choosing to 9 decades grand inn
                    welcome to 9 decades grand inn

enter user type(1.customer or 2.employee)press 1 or 2  :_
```

When user==1 (customer) selected dining

Design implementation is done in atom and vscode

Thank you