A PROJECT REPORT
ON
Restaurant Management System

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF

DIPLOMA IN COMPUTER ENGINEERING

SUBMITTED TO
GOVERNMENT POLYTECHNIC MUMBAI

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CERTIFICATE

This is to Certify that the project report entitled "Restaurant Management System" was successfully completed by students of First-semester Diploma in (Computer Engineering).

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In partial fulfillment of the requirements for the award of the Diploma in Computer Engineering and submitted Government Polytechnic Mumbai work carried out during a period for the academic year 2023-2024 as per the curriculum.

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Abstract

The provided C program serves as a basic simulation of a restaurant reservation and online food ordering system. The program offers users two primary options: booking a table or ordering food online. In the reservation section, users can choose between family, friends, or individual bookings, specifying room preferences. The program prompts users for confirmation and simulates the booking process, providing a booking acknowledgment upon success. For online food ordering, users can select from either a vegetarian or non-vegetarian meal plan, followed by choosing specific dishes from an extensive menu. The program displays the selected items and their respective prices, allowing users to add more to their order. The user is then prompted to select desserts and drinks, with corresponding prices displayed. Personal and location details are collected, and users are given the option to confirm their order. The program employs sleep functions to create a visual effect simulating a real-time ordering process. However, the code could benefit from improved organization, consistent formatting, and meaningful variable names. Suggestions include the use of functions, avoidance of goto statements, and enhanced input validation for user inputs. Despite these recommendations, the program provides a comprehensive simulation of a restaurant interaction, covering table reservations, food selection, and order confirmation

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Introduction

The presented C program represents a simulated interface for a comprehensive restaurant management system, incorporating features for table reservations and online food ordering. Designed to emulate real-world interactions, the program engages users in a dynamic process, allowing them to choose between booking a table for different occasions or conveniently ordering food online. This multifaceted system navigates users through various options, from selecting room preferences and confirming reservations to exploring extensive menus, choosing dishes, and finalizing orders.
The program is crafted to provide users with a simulated yet immersive experience akin to a genuine restaurant visit. Users have the flexibility to customize their dining experience, whether it be reserving tables for family, friends, or individuals, specifying room preferences such as AC or non-AC, or exploring a diverse range of meal plans featuring both vegetarian and non-vegetarian options. Through a series of user prompts and simulated delays, the program recreates the anticipation and excitement associated with a live restaurant experience.

While the program effectively captures the essence of a restaurant's reservation and ordering processes, suggestions for code refinement include enhancing variable names, adopting consistent formatting, minimizing the use of goto statements, and incorporating input validation for more robust user interaction. In essence, this program serves as a versatile and interactive tool, providing a glimpse into the intricacies of restaurant operations and customer engagement in a simulated environment.
The functions of the booking system are excellent viz. Booking AC or non-ac room, number of people, name of a person, etc. Then in the online food ordering system, there are many interesting functions viz. displaying the veg and non-veg menu, allowing the user to select the dishes multiple times in case a user forgets to order something he wants, asking him for deserts and juices, etc. Our program has a very good future scope as it has an automated backend system and is easy to use having all required functions. It has all the required features a user want, so that makes it more interesting and effective

Proposed System

2.1 Proposed System

In the provided program, the proposed system is to simulate restaurant management system that combines table reservation and online food ordering functionalities. The system aims to offer users a virtual experience reminiscent of real-world restaurant interactions, providing them with the flexibility to either book a table for different occasions or conveniently order food online. The key features of the proposed system include:

1. Table Reservation:

Users can choose from various reservation options based on the occasion, such as family gatherings, friends' meetups, or individual visits. Room preferences, including AC or non-AC, can be specified during the reservation process. The system prompts users to confirm their booking choices and simulates a booking acknowledgment process.

2. Online Food Ordering:

Users have the option to order food online, selecting from different meal plans that cater to both vegetarian and non-vegetarian preferences. A detailed menu is presented, allowing users to choose specific dishes and view their corresponding prices. The program simulates the process of adding items to the order, creating a dynamic and interactive ordering experience.

3. Desserts and Drinks Selection:

Users can further customize their orders by selecting desserts and drinks from a provided menu, each with associated prices.

4. Order Confirmation:

The system collects personal details and location information from users.Users are prompted to confirm their entire order, and the program simulates an ordering process with visual effects to enhance the user experience.

5. Simulated Real-Time Interaction:

The use of sleep functions in the code introduces delays, contributing to a simulated real-time interaction that mimics the anticipation and progression of a live restaurant experience. While the proposed system is a simulated representation and lacks actual backend functionality, it offers users an engaging and dynamic interface, providing insights into the steps involved in making reservations and placing food orders within a restaurant setting.

2.2 Algorithm and Flowchart

Algorithm:-

1. Start .
2. Declare a global variable integers as o.
3. Declare the integers as a,n,u,p,b,c,d,x,f,cd,ko,ok,hu,ju,uk.
4. Declare strings as str, str1, str2, str3, str4, str5 , str8,str 9, str10, str12, pp and give 50 size to all.
5. Display “Welcome !”
6. Display “What would you like to do ? and go to step 7.
7. Display 2 options :
    A. Book a table and go to step 8.
    B. Order food online and go to step 26.
8. Display 3 options :
    A. For family and go to step 9
    B. For friends and go to step 9
    C. For individual and go to step 18.
9. Display 2 options :
    A. AC room and go to step 10 (for only family and friends)
    B. Non AC room and go to step 10 (for only family and friends)
10. Display “How many peoples are coming ?
11. Display “Enter the name of a responsible person”.
12. Display “Are you sure to confirm your booked table ?” and go to step 13.
13. Display 2 options :
    A. Yes and go to step 14
    B. No and go to step 55.
14. Display “Booking” and display (.) five times use sleep (1) between them and go to step 15.
15. Display “Your table is booked successfully”. and go to step 16
16. Display “Your table number will be given to you when you will visit our restaurant” and go to Step 17.
17. Display “Thank you !”. and go to step
18. Display 2 options :
    A. AC room and go to step 19.
    B. Non AC room and go to step 19.
19. Display “Enter your name please : ” and go to step 20.
20. Display “Are you sure to confirm your order ? ” and go to step 21.
21. Display 2 options :
    A. Yes and go to step 22.
    B. No and go to step 55.

22. Display “Booking” and display (.) five times use sleep (1) between them and go to step 23.
23. Display “Your table is booked successfully”. and go to step 24
24. Display “Your table number will be given to you when you will visit our restaurant”
and go to
Step 25.
25. Display “Thank you !” and go to step
26. Display 2 options :
    A. Veg dishes and go to step 27 .
    B. Non veg dishes and go to step 28.
27. Display the veg menu : -

Veg Hakka Noodles	200/-
Veg Manchurian Chaat	300/-
Veg Thali	400/-
Paneer Tikka Wrap	200/-
Bombay Pav Bhaji	100/-
Veg Pulav	400/-
Veg Fried Rice	200/-
Chana Bhatura	200/-
Poori Bhaji	300/-
Mix Vegetable Korma	400/-
Paneer Tikka Masala	300/-
Rajmah	200/-
Dal Makhani	400/-
Kadhai Pakora	200/-
Dal Tadka	300/-
Veg Hand	400/-
Aloo Mutter	300/-
Veg Kadhai	500/-
Sev Bhaji	400/-
Veg Masala Rice	200/- (and go to step 29)

28. Display the non-veg menu : -

Butter Chicken	500/-
Chicken Lollipop	400/-
Chicken Tikka	400/-
Chicken Curry	300/-
Chicken Shahi Korma	500/-
Chicken Tikka Masala	400/-
Tandoori Chicken	500/-
Seekh Kabab	300/-
Chicken Biryani	600/-

Reshmi Kabab	300/-
Chicken Fried Rice	400/-
Chicken Curry	500/-
Chicken Butter Masala	600/-
Chicken Dum Biryani	700/-
Chicken 65	300/-
Chicken Pasta	500/-
Chilli Chicken	400/-
Chicken Prawns	500/-
Chicken Popcorn	400/-
Grilled Chicken	500/-
Chicken Korma	600/- (and go to step 30)

29. Display "Enter the number of your order" and go to step 30.
30. Display the order and MRP of the order the user has ordered and go to step 33.
31. Display "Enter the number of your order" and go to step 32.
32. Display the order and MRP of the order the user has ordered and go to step 33.
33. Display "Any more dishes ?" and go to step 34.
34. Display "Any desert dishes you want ? and go to step 35.
35. Display 2 options :
    A. Yes and go to step 36
    B. No and go to step 39.
36. Display the desert dishes :

Almond cake	850/-
Raspberry cheese cake	680/-
Classic tiramisu	650/-
Mud pie	450/-
Creme carmel	550/-
Peach snap roll	650/-
Gulkhand gulab jamun	550/-
Fresh fruit salad	450/-
Chocolate brownie	650/-
Chocolate cake	950/- (and go to step 37)

37. Display "Enter your desert dish number" and go to step 38.

38. Display the desert dish with MRP that the uses chooses and go to step 39.

39. Display "Any drinks you want ? and go to step 40.

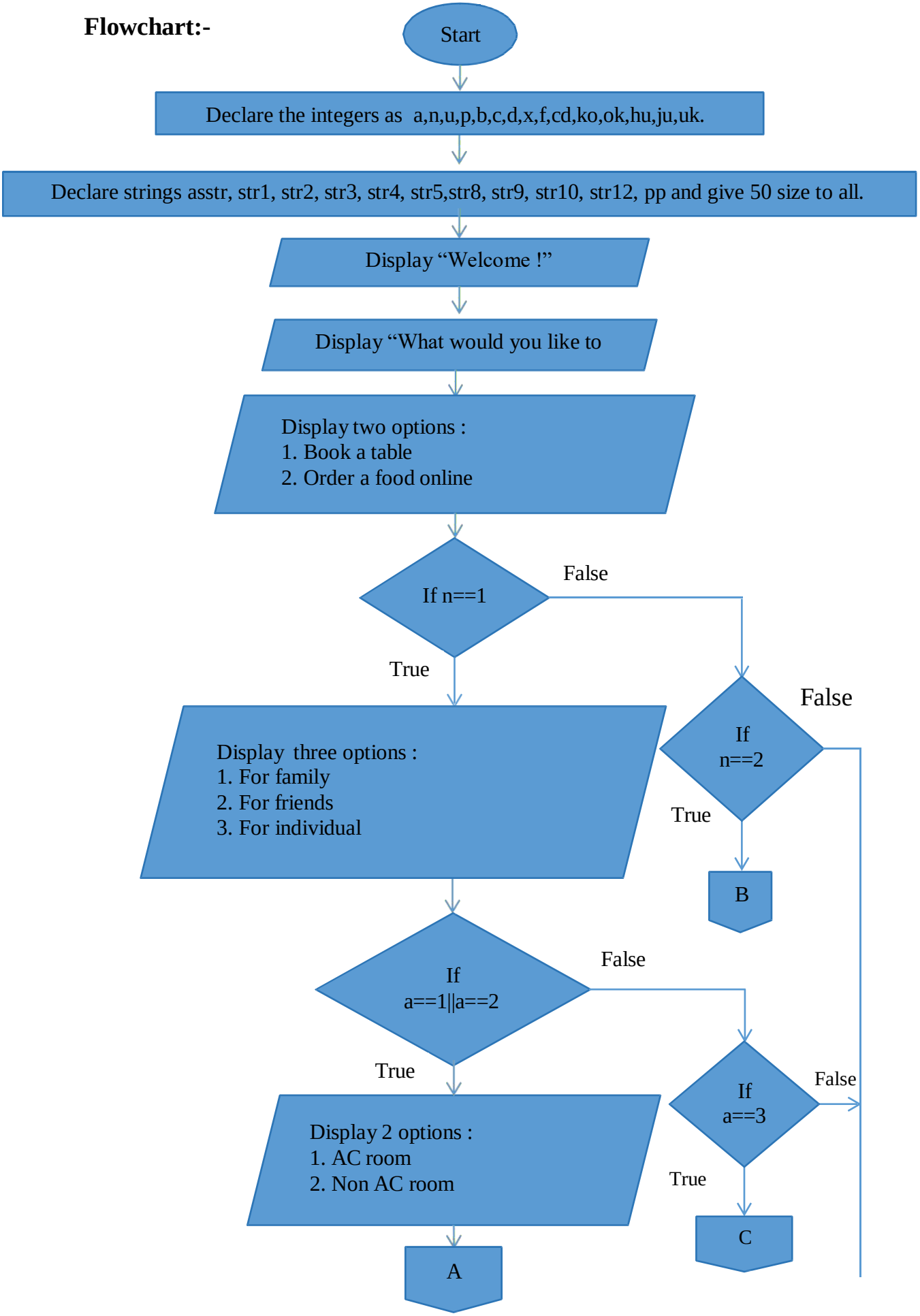
40. Display 2 options :
    A. Yes and go to step 41.
    B. No and go to step 44.

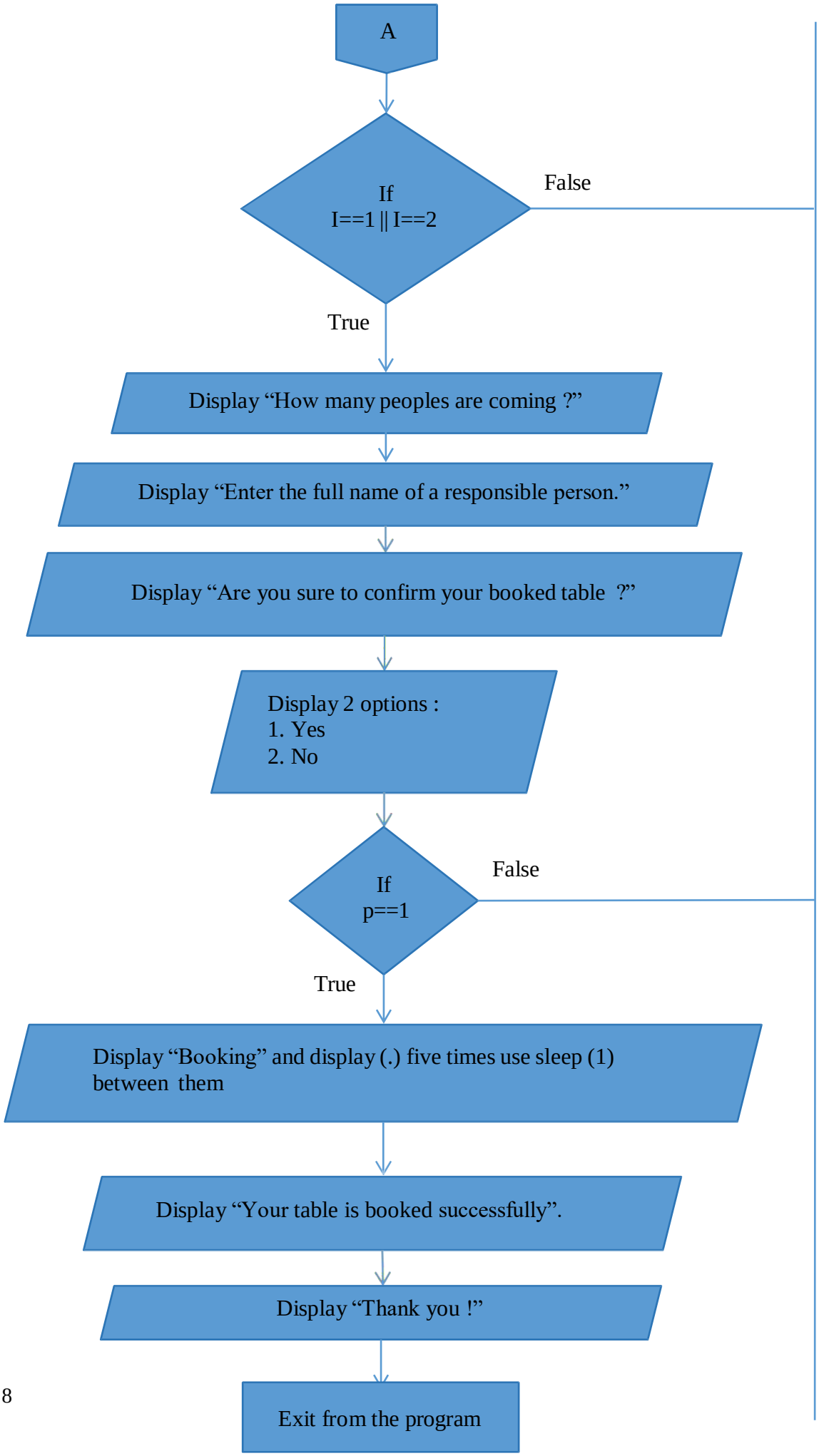
41. Display the menu of drinks

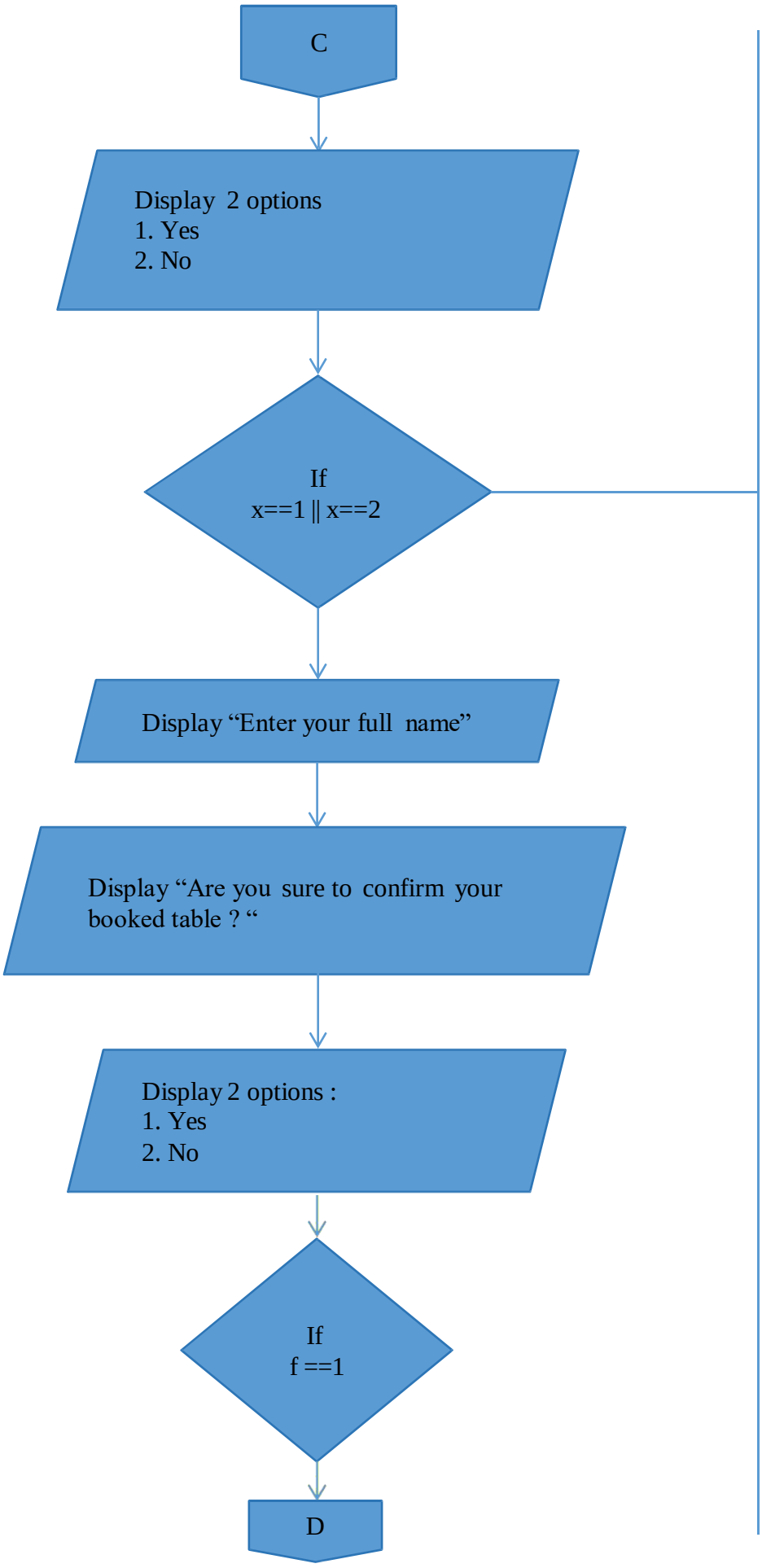
Sprite	30/-
Banana milkshake	120/-
Pepsi	40/-
Chocolate milkshake	200/-
Black tea	30/-
Nescafe coffee	80/-
Strawberry milkshake	120/-
Cola	70/-
Slice	50/-
Lemon juice	60/- **(and go to step 42)**

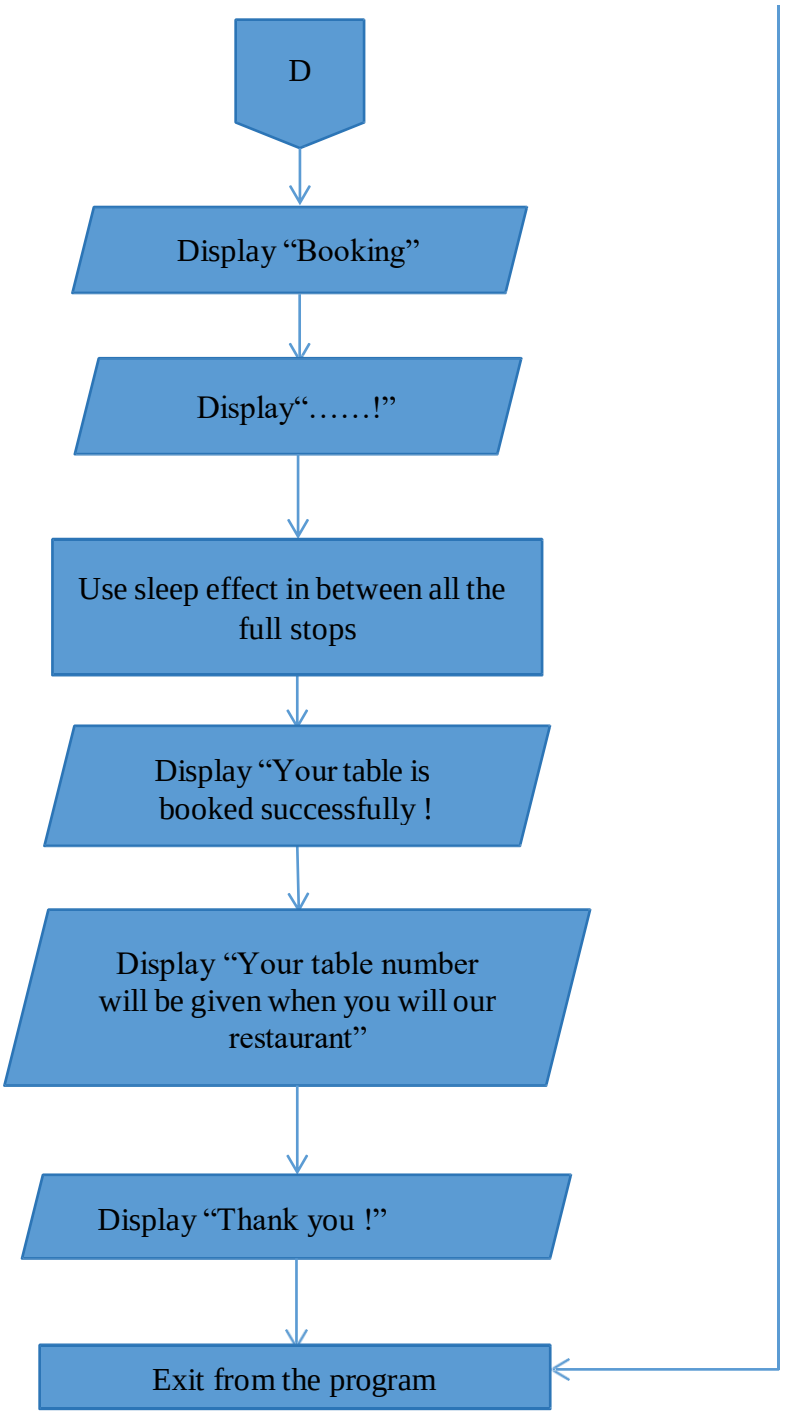
42. Display "Enter your drink number" and go to step 43.
43. Display the drink name with it's MRP that the user chooses and go to step 44.
44. Display "Enter your full name" and go to step 45.
45. Display "Enter your city/town name" and go to step 46.
46. Display "Enter your sector/area" and go to step 47.
47. Display "Enter your building/house number" and go to step 48.
48. Display "Enter your mobile number" and go to step 49.
49. Display "Are you sure to confirm your order ?" and go to step 49.
50. Display 2 options :
    A. Yes and go to step 50.
    B. No and go to step 55.
51. Display "Ordering" and display (.) five times and sleep(1) between them and go to step 51.
52. Display "Ordered successfully !" and go to step 52.
53. Display "Thanks for ordering from our restaurant !" and go to step 53.
54. Display "Your order will be place to you within 20 minutes" and go to step 53.
55. Stop.

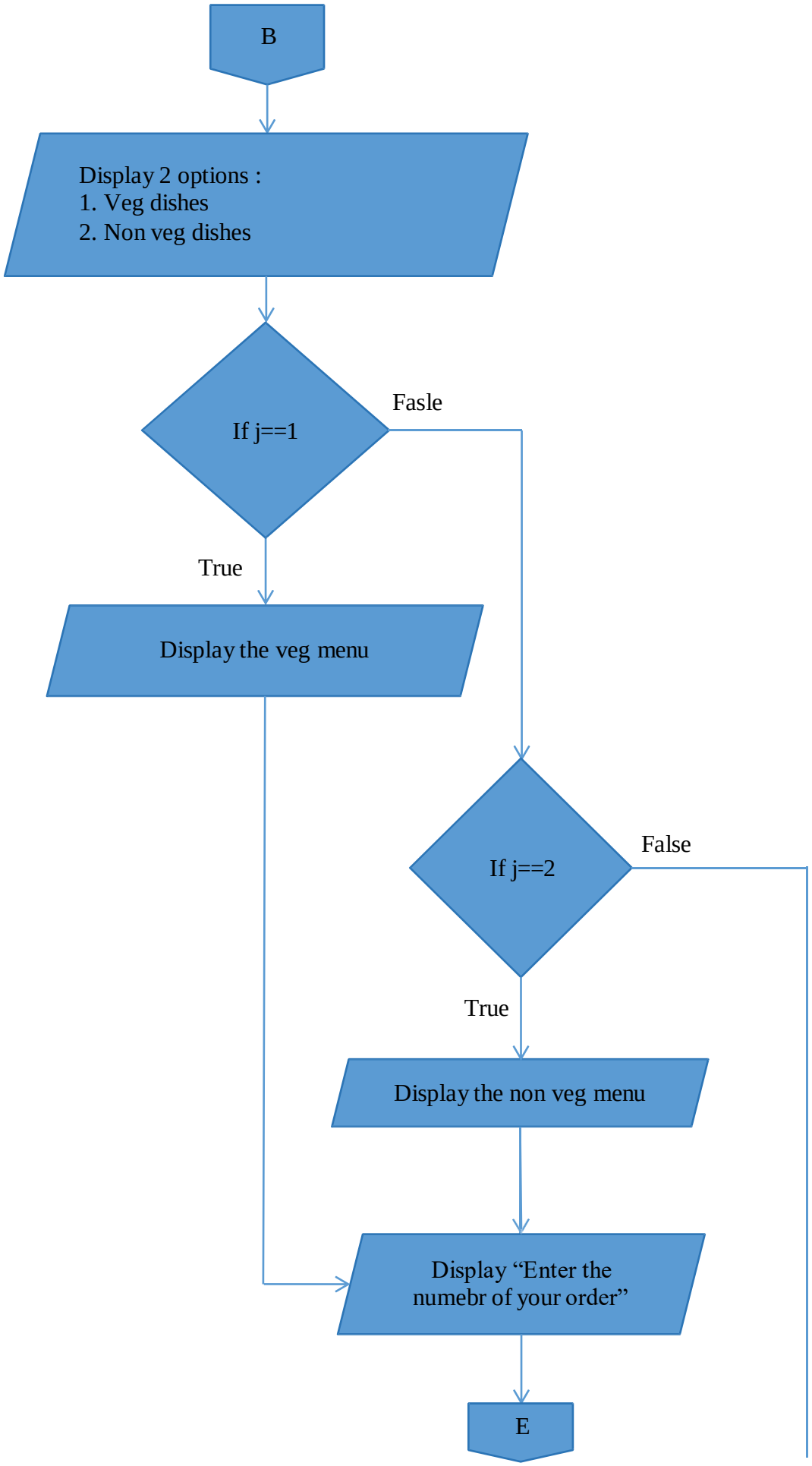
Flowchart:-

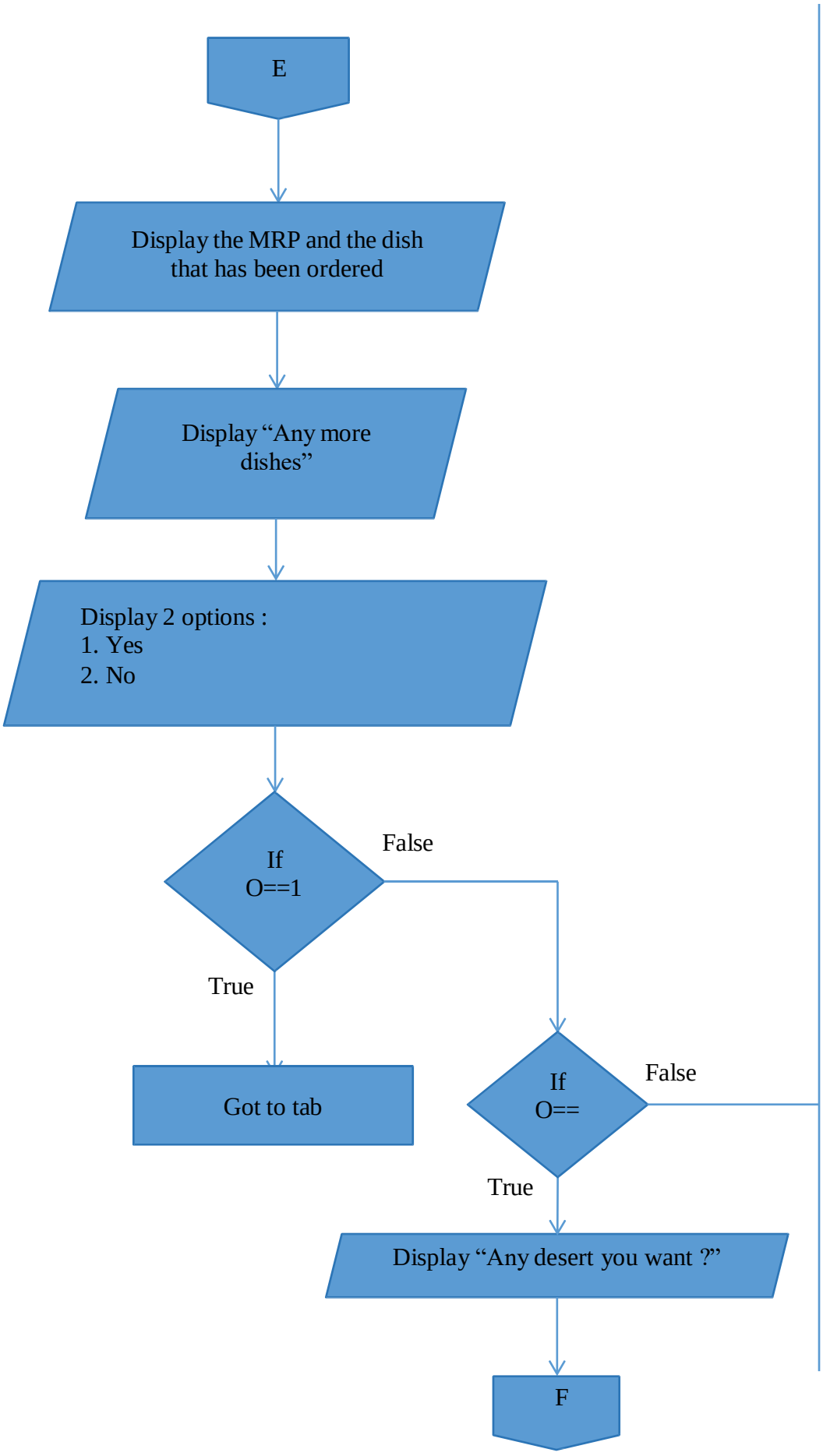

Start
Declare the integers as a,n,u,p,b,c,d,x,f,cd,ko,ok,hu,ju,uk.
Declare strings asstr, str1, str2, str3, str4, str5,str8, str9, str10, str12, pp and give 50 size to all.
Display "Welcome !"
Display "What would you like to
Display two options :
1. Book a table
2. Order a food online
If n==1
False
True
Display three options :
1. For family
2. For friends
3. For individual
If n==2
False
True
B
If a==1||a==2
False
True
Display 2 options :
1. AC room
2. Non AC room
If a==3
False
True
C
A

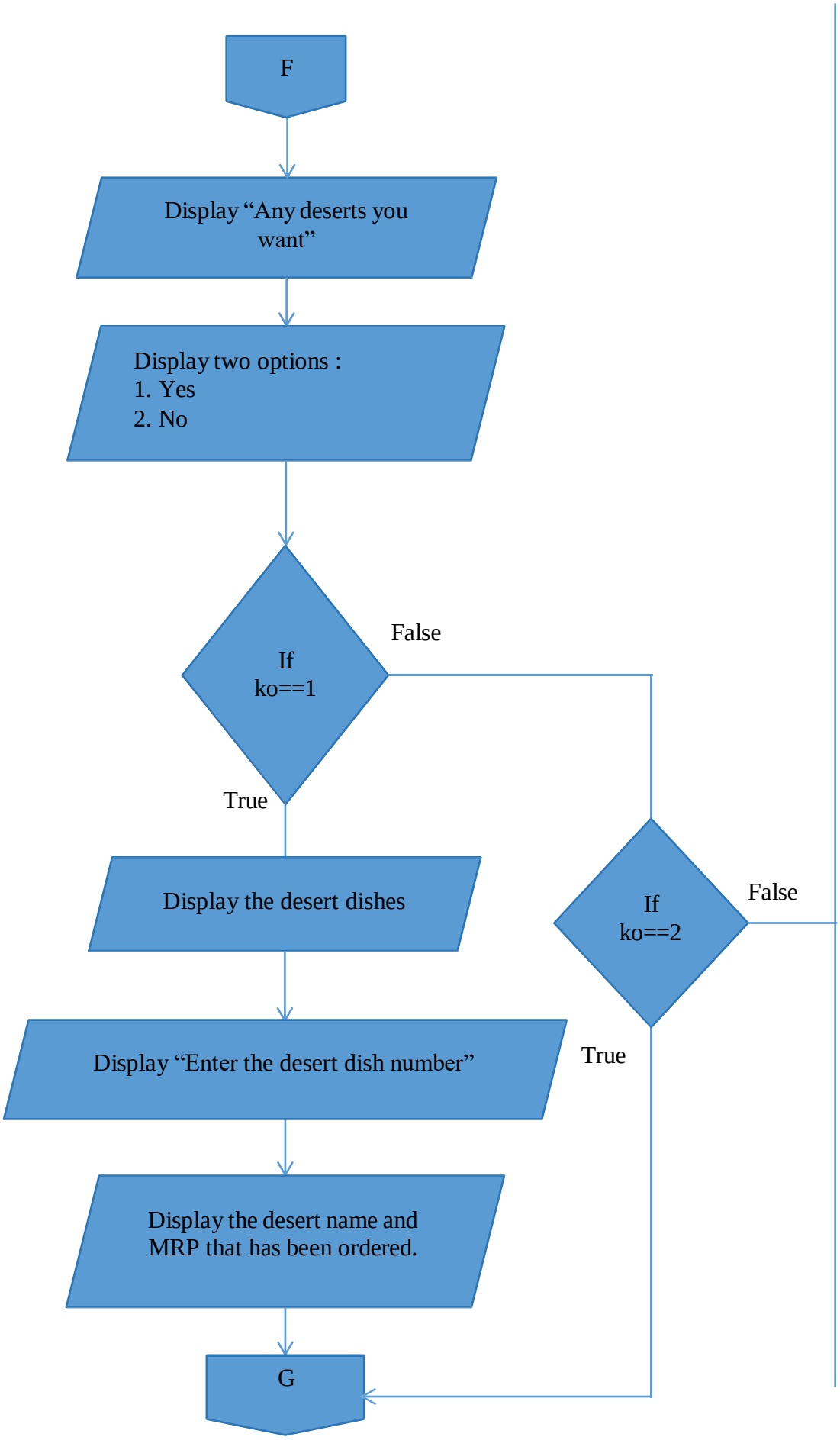

A
If
I==1 || I==2
False
True
Display “How many peoples are coming ?”
Display “Enter the full name of a responsible person.”
Display “Are you sure to confirm your booked table ?”
Display 2 options :
1. Yes
2. No
If
p==1
False
True
Display “Booking” and display (.) five times use sleep (1)
between them
Display “Your table is booked successfully”.
Display “Thank you !”
Exit from the program

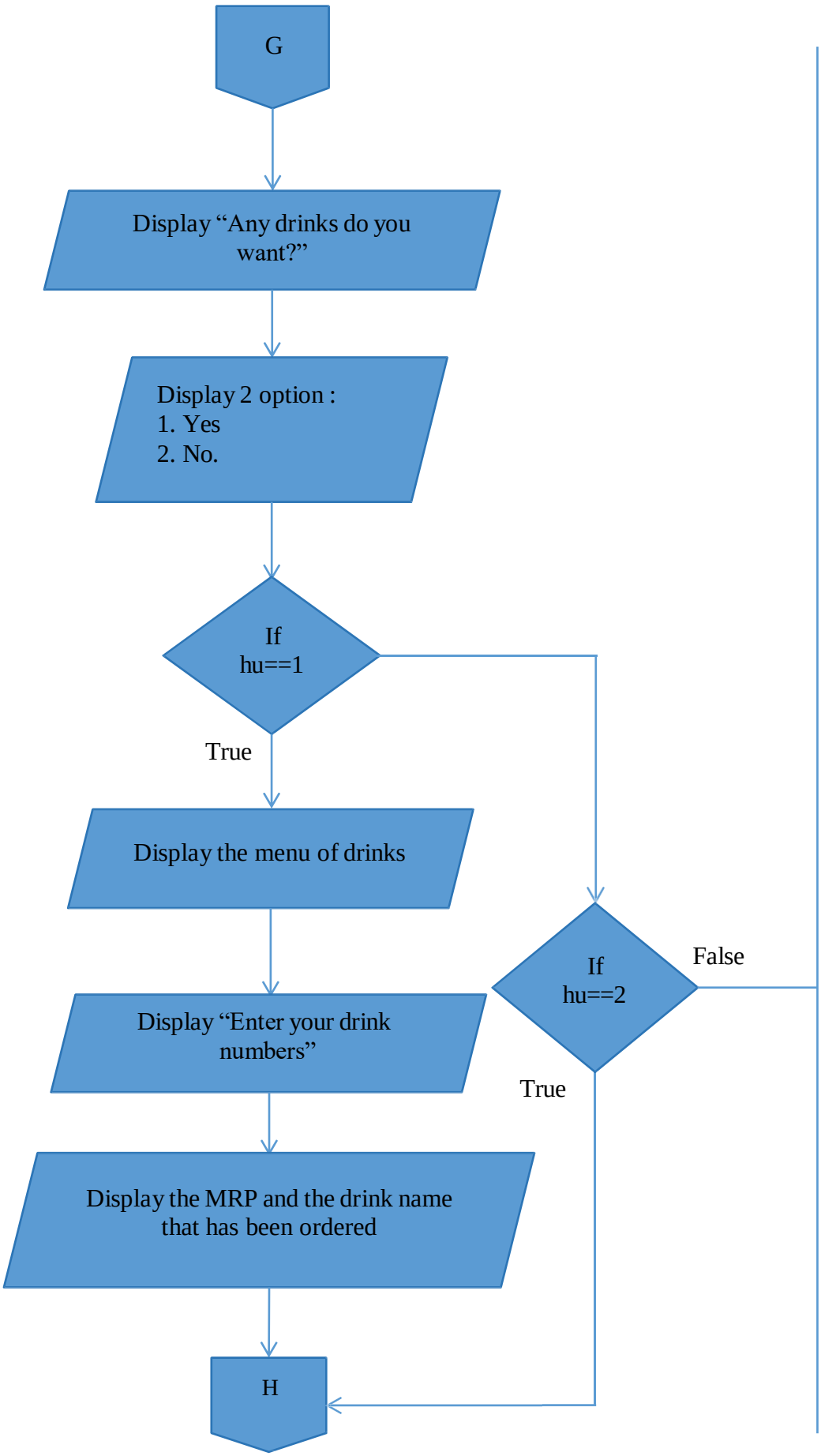

C
Display 2 options
1. Yes
2. No
If
x==1 || x==2
Display “Enter your full name”
Display “Are you sure to confirm your booked table ? “
Display 2 options :
1. Yes
2. No
If
f ==1
D

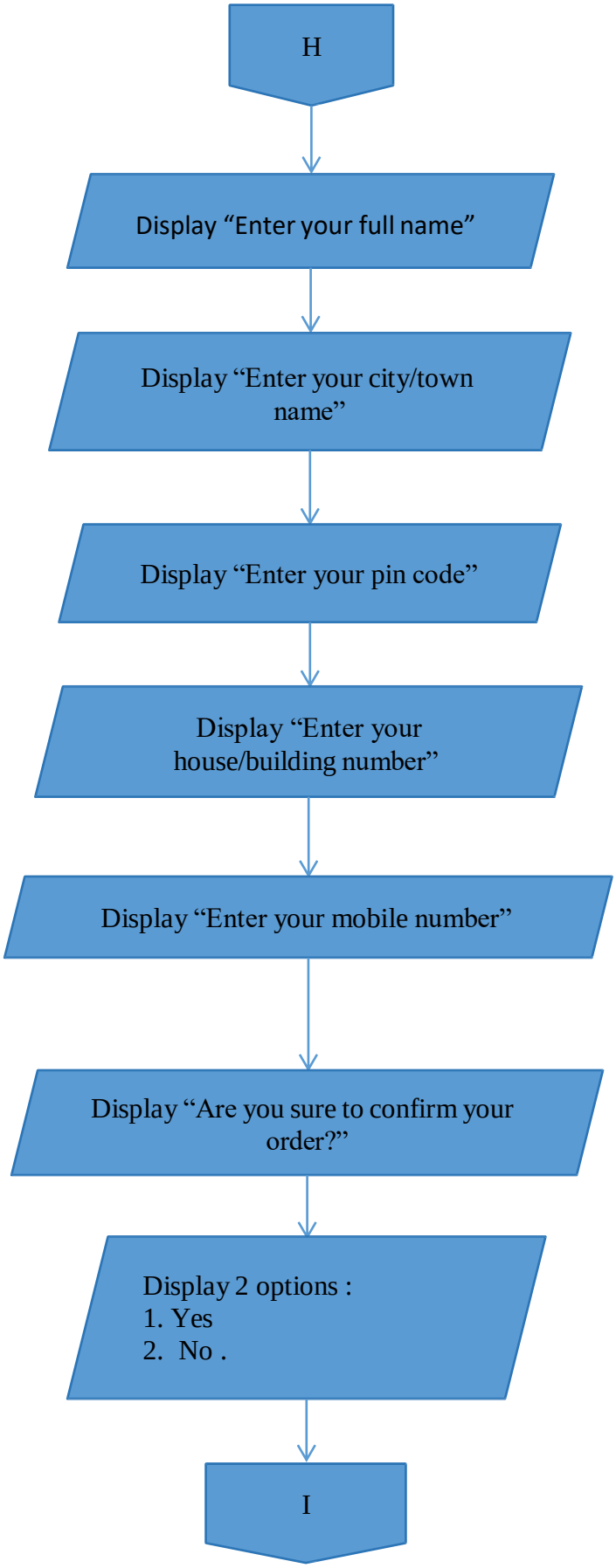

D
Display “Booking”
Display“……!”
Use sleep effect in between all the full stops
Display “Your table is booked successfully !
Display “Your table number will be given when you will our restaurant”
Display “Thank you !”
Exit from the program

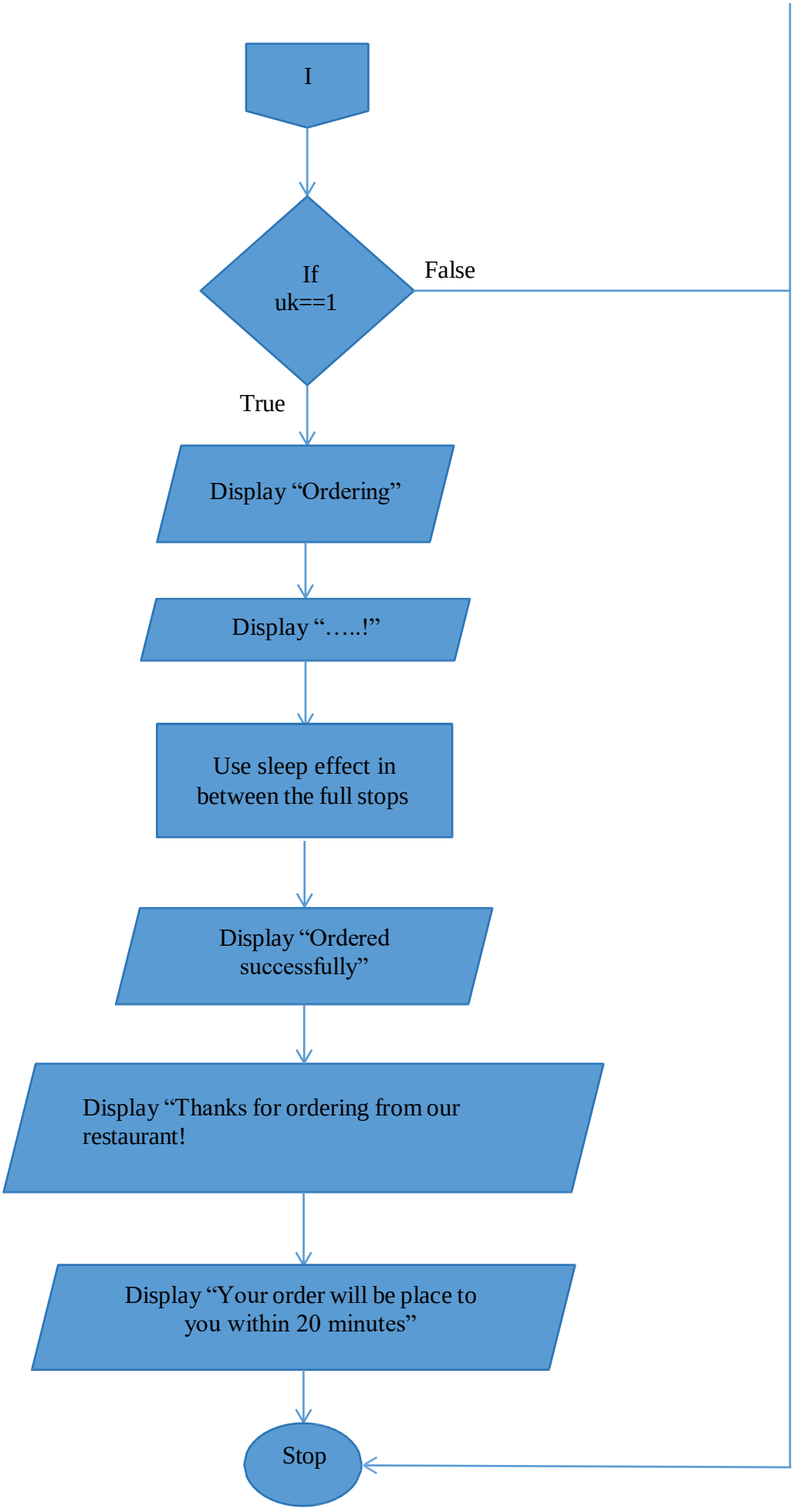

B
Display 2 options :
1. Veg dishes
2. Non veg dishes
If j==1
Fasle
True
Display the veg menu
If j==2
False
True
Display the non veg menu
Display “Enter the
numebr of your order”
E


E
Display the MRP and the dish that has been ordered
Display “Any more dishes”
Display 2 options :
1. Yes
2. No
If O==1
False
True
Got to tab
If O==
False
True
Display “Any desert you want ?”
F


F
Display “Any deserts you want”
Display two options :
1. Yes
2. No
If ko==1
False
True
Display the desert dishes
If ko==2
False
True
Display “Enter the desert dish number”
Display the desert name and MRP that has been ordered.
G


G
Display “Any drinks do you want?”
Display 2 option :
1. Yes
2. No.
If
hu==1
True
Display the menu of drinks
Display “Enter your drink numbers”
Display the MRP and the drink name that has been ordered
H
If
hu==2
False
True


H
Display “Enter your full name”
Display “Enter your city/town name”
Display “Enter your pin code”
Display “Enter your house/building number”
Display “Enter your mobile number”
Display “Are you sure to confirm your order?”
Display 2 options :
1. Yes
2. No .
I


I
If
uk==1
False
True
Display “Ordering”
Display “…..!”
Use sleep effect in
between the full stops
Display “Ordered
successfully”
Display “Thanks for ordering from our
restaurant!
Display “Your order will be place to
you within 20 minutes”
Stop

2.3 Program and Output

```
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
int o;
int main()
{ int a, n, i, u, p, yt;
int b,c,d;
int x,f;
char str1[50];
char str2[50];
char str[50];
char str10[50];
char str12[50];
char str9[50];
int cd;
   printf("                                        Welcome !\n");
start:
printf("What would you like to do ? \n");
printf("\n1. Book a table\n");
printf("2. Order food online ");
scanf("%d", &n);
if (n==1)
{
   printf("\n1. For family\n");
   printf("2. For friends\n");
   printf("3. For Individual ");
   scanf("%d", &a);

   if(a==1)
   {
   printf("\n1. AC room \n");
   printf("2. Non AC room ");
   scanf("%d", &b);
   if(b==1||b==2)
   {
   printf("\nHow many of peoples are coming ? ");
   scanf("%d", &c);
   printf("\nName a responsible person :- \n\nEnter first name  : ");
   scanf("%s", &str10);
   printf("\nEnter your last name : ");
   scanf("%s", str1);
   printf("\n\nAre you sure to confirm your booked table ? : \n");
   printf("\n1. Yes\n2. No ");
   scanf("%d", &d);
   if(d==1)
   {
  printf("\nBooking");
            printf(".");
            sleep(1);
```

```
            printf(".");
            sleep(1);
            printf(".");
            sleep(1);
            printf(".");
            sleep(1);
            printf(".");
            sleep(1);
    printf("\nYour table is booked successfully\n");
    printf("Your table number will be given to you when you will visit our restaurant\n");
    printf("Thank You !");
      exit(0);
    }}}
if (d==2)
{
    exit(0);
}
    if (a==2)
    {
        printf("\n1. AC room\n");
        printf("2. Non AC room ");
        scanf("%d", &i);
        if (i==1 || i==2)
        {
            printf("\nHow many peoples are coming ? ");
            scanf("%d", &u);
            printf("\nName a responsible person :- \n\nEnter the first name : ");
            scanf("%s", str);
            printf("\nEnter the last name : ");
            scanf("%s", &str12);
    printf("\n\nAre you sure to confirmed your booked table? : \n");
    printf("\n1. Yes\n2. No ");
            scanf("%d", &p);
            if (p==1)
            {
                printf("\nBooking");
                printf(".");
                sleep(1);
                printf(".");
                sleep(1);
                printf(".");
                sleep(1);
                printf(".");
                sleep(1);
                printf(".");
                sleep(1);
                printf(".");
                sleep(1);
                printf("\nYour table is booked successfully\n");
                printf("Your table number will be given you when you will visit our restaurant\n");
                printf("Thank you !");
                exit(0);
            }}}}
```

```
if (p==2)
{
   exit(0);
}
  if (a==3)
    {
       printf("\n1. AC room\n2. Non AC room ");
       scanf("%d",&x);
       if (x==1 || x==2)
       {
          printf("\nEnter your first name : ");
          scanf("%s",&str2);
          printf("\nEnter your last name : ");
          scanf("%s", &str9);
          printf("\n\nAre you sure to confirm your booked table?\n\n1. Yes\n2. No ");
          scanf("%d",&f);
       }
       if (f==1)
       {
             printf("\nBooking");
             printf(".");
             sleep(1);
             printf(".");
             sleep(1);
             printf(".");
             sleep(1);
             printf(".");
             sleep(1);
             printf(".");
             sleep(1);
             printf("\nYour table has been booked successfully!\nYour table number will be given to
you when you will visit our restaurant.\n");
             printf("Thank you !");
             exit(0);
       }
       if (f==2)
       {
          exit(0);
       }
         }
int j;
if (n==2)
{
   tab:
   printf("\nChoose the meal plan : \n\n");
   printf("1. Veg dishes.\n");
   printf("2. Non veg dishes. ");
   scanf("%d", &j);
   if (j==1)
   {
   int no;
```

```
printf("\n\n1. Veg Hakka Noodles\t\t200/-\n");
printf("2. Veg Chaat\t\t\t300/-\n");
printf("3. Veg Thali\t\t\t400/-\n");
printf("4. Paneer Tikka Wrap\t\t200/-\n");
printf("5. Pav Bhaji\t\t\t200/-\n");
printf("6. Veg Pulav\t\t\t300/-\n");
printf("7. Veg Fried Rice\t\t400/-\n");
printf("8. Chana Bhatura\t\t200/-\n");
printf("9. Poori Bhaji\t\t\t300/-\n");
printf("10. Vegetable Korma\t\t200/-\n");
printf("11. Tikka Masala\t\t400/-\n");
printf("12. Rajmah\t\t\t200/-\n");
printf("13. Dal Makhani\t\t\t500/-\n");
printf("14. Kadhai Pakora\t\t300/-\n");
printf("15. Dal Tadka\t\t\t200/-\n");
printf("16. Veg Handi\t\t\t400/-\n");
printf("17. Aloo Mutter\t\t\t300/-\n");
printf("18. Veg Kadhai\t\t\t500/-\n");
printf("19. Sev Bhaji\t\t\t400/-\n");
printf("20. Veg Rice\t\t\t200/-\n\n");

printf("Enter the number of your order : ");
scanf("%d",&no);
if (no==1)
{
   printf("Your order is: Veg Hakka Noodles\nyour price is: 200/-");
}
if(no==2)
{
   printf("Your order is: Veg Chaat\nyour price is: 300/-");
}
if (no==3)
{
   printf("Your order is: Veg Thali.\nyour price is: 400/-");
}
if(no==4)
{
   printf("Your order is: Paneer Tikka Wrap\nyour price is: 200/-");
}
if (no==5)
{
   printf("Your order is: Pav Bhaji\nyour price is: 100/-");
}
if(no==6)
{
   printf("Your order is: Veg Pulav\nyour price is: 400/-");
}
if (no==7)
{
   printf("Your order is: Veg Fried Rice\nyour price is: 200/-");
}
```

```
if(no==8)
{
   printf("Your order is: Chana Bhatura\nyour price is: 200/-");
}
if (no==9)
{
   printf("your order is: Poori Bhaji\nyour price is: 300/-");
}
if(no==10)
{
   printf("Your order is: Vegetable Korma\nyour price is: 200/-");
}
if (no==11)
{
   printf("Your order is: Tikka Masala\nyour price is: 400/-");
}
if(no==12)
{
   printf("Your order is: Rajmah\nyour price is: 200/-");
}
if (no==13)
{
   printf("Your order is: Dal Makhani\nyour price is: 500/-");
}
if(no==14)
{
   printf("Your order is: Kadhai Pakora\nyour price is: 300/-");
}
if (no==15)
{
   printf("your order is: Dal Tadka\nyour price is: 200/-");
}
if(no==16)
{
   printf("Your order is: Veg Handi\nyour price is: 400/-");
}
if (no==17)
{
   printf("Your order is: Aloo Mutter. Dal Makhani\nyour price is: 300/-");
}
if(no==18)
{
   printf("Your order is: Veg Kadhai\nyour price is: 500/-");
}
if (no==19)
{
   printf("Your order is: Sev Bhaji\nyour price is: 400/-");
}
if(no==20)
{
   printf("Your order is: Veg Rice\nyour price is: 200/-");
```

```
    }


    }
    if (j==2)
    {

    int dc, fd;
    printf("\t\tNon-veg\n");
    printf("1. butter chicken\t\t500/-\n");
    printf("2. Chicken Lollipop\t\t400/-\n");
    printf("3. Chicken Tikka\t\t400/-\n");
    printf("4. Chicken Curry\t\t300/-\n");
    printf("5. Chicken Shahi Korma\t\t500/-\n");
    printf("6. Chicken Tikka Masala\t\t400/-\n");
    printf("7. Tandoori Chicken\t\t500/-\n");
    printf("8. Seekh Kabab\t\t\t300/-\n");
    printf("9. Chicken Biryani\t\t600/-\n");
    printf("10. Reshmi Kabab\t\t300/-\n");
    printf("11. Chicken Fried Rice\t\t400/-\n");
    printf("12. Chicken Curry\t\t500/-\t\t\n");
    printf("13. Chicken Butter Masala\t600/-\n");
    printf("14. Chicken Dum Biryani\t\t700/-\n");
    printf("15. Chicken 65\t\t\t300/-\n");
    printf("16. Chicken Pasta\t\t500/-\n");
    printf("17. Chilli Chicken\t\t400/-\n");
    printf("18. Chicken kabab\t\t200/-\n");
    printf("19. Chicken Popcorn\t\t400/-\n");
    printf("20. Grilled Chicken\t\t500/-\n");
    printf("\nEnter the number of your order : ");
    scanf("%d",&dc);
    if(dc==1)
{
    printf("\nYour Order is : Butter Chicken \nMRP = 500/-");
}
if(dc==2)
{
    printf("\nYour Order is : Chicken Lollipop \nMRP = 400/-");
}
if(dc==3)
{
    printf("\nYour Order is : Chicken Tikka\nMRP = 400/-");
}
if(dc==4)
{
    printf("\nYour Order is : Chicken Curry\nMRP = 300/-");
}
if(dc==5)
{
    printf("\nYour Order is : Chicken Shahi Korma \nMRP = 500/-");
}
```

```
if(dc==6)
{
   printf("\nYour Order is : Chicken Tikka Masala \nMRP = 400/-");
}
if(dc==7)
{
   printf("\nYour Order is : Tandoori Chicken \nMRP = 500/-");
}
if(dc==8)
{
   printf("\nYour Order is : Seekh Kabab \nMRP = 300/-");
}
if(dc==9)
{
   printf("\nYour Order is : Chicken Biryani \nMRP = 600/-");
}
if(dc==10)
{
   printf("\nYour Order is : Reshmi Kabab \n MRP = 300/-");
}
   if (dc==11)
   {
      printf("\nYour order is : Chicken fried Rice\nMRP = 400/-");
   }
   if (dc==12)
   {
      printf("\nYour order is : Chicken Curry\nMRP = 500/-");
   }
   if (dc==13)
   {
      printf("\nYour order is : Chicken Butter Masala\nMRP = 600/-");
   }
   if (dc==14)
   {
      printf("\nYour order is : Chicken Dum Biryani\nMRP = 700/-");
   }
   if (dc==15)
   {
      printf("\nYour order is : Chicken 65\nMRP = 300/-");
   }
   if (dc==16)
   {
      printf("\nYour order is : Chicken Pasta\nMRP = 500/-");
   }
   if (dc==17)
   {
      printf("\nYour order is : Chicken Chilli\nMRP = 400/-");
   }
   if (dc==18)
   {
      printf("\nYour order is : Chicken kabab\nMRP = 200/-");
```

```
    }
    if (dc==19)
    {
        printf("\nYour order is : Chicken popcorns\nMRP = 400/-");
    }
    if (dc==20)
    {
        printf("\nYour order is : Grilled Chicken\nMRP = 500/-");
    }


}
}

    printf("\n\nAny more dishes? \n1. Yes\n2. No ");
    scanf("%d",&o);
    if(o==1)
    {
        goto tab;
    }

int ko, ok;
printf("\n\nAny desert dishes you want ?\n");
printf("1. Yes\n");
printf("2. No ");
scanf("%d", &ko);
if (ko==1)
{
printf("\n1. Almond Cake\t\t\t850/-\n");
printf("2. Raspberry Cheese Cake\t680/-\n");
printf("3. Classic Tiramisu\t\t650/-\n");
printf("4. Mud Pie\t\t\t450/-\n");
printf("5. Creme Carmel\t\t\t550/-\n");
printf("6. Peach Snap Roll\t\t650/-\n");
printf("7. Gulkand Gulab Jamun\t\t550/-\n");
printf("8. Fresh Fruit Salad\t\t450/-\n");
printf("9. Chocolate brownie\t\t650/-\n");
printf("10. Chocolate Cake\t\t950/-\n");
printf("\nEnter your desert dish number : ");
scanf("%d", &ok);
if(ok==1)
{
    printf("\nYour Order is : Almond Cake \n MRP = 850/-");
}
if(ok==2)
{
    printf("\nYour Order is : Raspberry Cheese Cake \n MRP = 680/-");
}
if(ok==3)
{
    printf("\nYour Order is : Classic Tiramisu \n MRP = 650/-");
```

```
}
if(ok==4)
{
   printf("\nYour Order is : Mud Pie \n MRP = 450/-");
}
if(ok==5)
{
   printf("\nYour Order is : Creme Caramel \n MRP = 550/-");
}
if(ok==6)
{
   printf("\nYour Order is : Peach Snap Rolls \n MRP = 650/-");
}
if(ok==7)
{
   printf("\nYour Order is : Gulkand Gulab Jamun \n MRP = 550/-");
}
if(ok==8)
{
   printf("\nYour Order is : Fresh Fruit Salad \n MRP = 450/-");
}
if(ok==9)
{
   printf("\nYour Order is : Chocolate brownie \n MRP = 650/-");
}
if(ok==10)
{
   printf("\nYour Order is : Chocolate cake \n MRP = 950/-");
}
}
if (ko==1||ko==2)
{
  printf("\n\nAny drinks you want ?\n");
}int hu, ju; printf("1.
  Yes\n");
  printf("2. No ");
  scanf("%d", &hu);
if (hu==1)
{
   printf("\nChoose the drinks from below :");
   printf("\n1. Sprite\t\t\t30/-\n");
   printf("2. Banana milkshake\t\t120/-\n");
   printf("3. Pepsi\t\t\t40/-\n");
   printf("4. Choclate milkshake\t\t200/-\n");
   printf("5. Black Tea\t\t\t30/-\n"); printf("6.
   Nescafe coffee\t\t80/-\n");
   printf("7. Strawberry milkshake\t\t120/-\n");
   printf("8. Cola\t\t\t\t70/-\n");
   printf("9. Slice\t\t\t50/-\n"); printf("10.
   Lemon Juice\t\t\t60/-\n");
   printf("\nEnter your juice number : ");
```

```
    scanf("%d", &ju);
    if (ju==1)
    {
       printf("\nYour drink is Sprite.\nMRP : 30/-");
    }
    if (ju==2)
    {
       printf("\nYour drink is Banana milkshake.\nMRP : 120/-");
    }
    if (ju==3)
    {
       printf("\nYour drink is Pepsi.\nMRP : 40/-");
    }
    if (ju==4)
    {
       printf("\nYour drink is Chocalate milkshake.\nMRP : 1200/-");
    }
    if (ju==5)
    {

       printf("\nYour drink is Black Tea.\nMRP : 30/-");
    }
    if (ju==6)
    {
       printf("\nYour drink is Nescafe coffee.\nMRP : 80/-");
    }
    if (ju==7)
    {
       printf("\nYour drink is strawberry milkshake.\nMRP : 120/-");
    }
    if (ju==8)
    {
       printf("\nYour drink is Cola.\nMRP : 70/-");
    }
    if (ju==9)
    {
       printf("\nYour drink is Slice.\nMRP : 50/-");
    }
    if (ju==10)
    {
       printf("\nYour drink is Lemon Juice.\nMRP : 60/-");
    }}
if(hu==1||hu==2)
{
char str3[50];
int uk;
char str4[50];
char str8[50];
char str5[50];
char pp[50];
   printf("\n\nEnter Your first name : ");
```

```
    scanf("%s", &str4);
    printf("\nEnter your last name : ");
    scanf("%s", &str8);
    printf("\nEnter your city name  : ");
    scanf("%s", &str3);
    printf("\nEnter your pin code : ");
    scanf("%s", &str5);
    printf("\nEnter your building/house number please : ");
    scanf("%s", &pp);
    printf("\nEnter your mobile number (Note : It should be working !) : ");
    scanf("%d", &yt);
    printf("\n\nAre you sure to confirm your order ? \n");
    printf("1. Yes\n");
    printf("2. No ");
    scanf("%d", &uk);
    if (uk==1)
    {
        printf("\nOrdering");
        sleep(1);
        printf(".");
        sleep(1);
        printf(".");
        sleep(1);
        printf(".");
        sleep(1);
        printf(".");
        sleep(1);
        printf("\nOrdered successfully !");
        printf("\nThanks for ordering from our restuarant !\n");
        printf("Your order will be place to you within 20 minutes.");

   }
    if (uk==2)
    {
        exit(0);    }

}

return 0; }
```

Output:

Book A Table:-

For Family-

For Friends-

For Individual-

Order Food Online:-

```
                                                Welcome !
What would you like to do ?

1. Book a table
2. Order food online 2

Choose the meal plan :

1. Veg dishes.
2. Non veg dishes. 2
                    Non-veg
1. butter chicken               500/-
2. Chicken Lollipop             400/-
3. Chicken Tikka                400/-
4. Chicken Curry                300/-
5. Chicken Shahi Korma          500/-
6. Chicken Tikka Masala         400/-
7. Tandoori Chicken             500/-
8. Seekh Kabab                  300/-
9. Chicken Biryani              600/-
10. Reshmi Kabab                300/-
11. Chicken Fried Rice          400/-
12. Chicken Curry               500/-
13. Chicken Butter Masala       600/-
14. Chicken Dum Biryani         700/-
15. Chicken 65                  300/-
16. Chicken Pasta               500/-
17. Chilli Chicken              400/-
18. Chicken kabab               200/-
19. Chicken Popcorn             400/-
20. Grilled Chicken             500/-

Enter the number of your order : 15

Your order is : Chicken 65
MRP = 300/-

Any more dishes?
1. Yes
2. No 1

Choose the meal plan :

1. Veg dishes.
2. Non veg dishes. 1


1. Veg Hakka Noodles            200/-
2. Veg Chaat                    300/-
3. Veg Thali                    400/-
4. Paneer Tikka Wrap            200/-
5. Pav Bhaji                    200/-
6. Veg Pulav                    300/-
7. Veg Fried Rice               400/-
8. Chana Bhatura                200/-
9. Poori Bhaji                  300/-
10. Vegetable Korma             200/-
11. Tikka Masala                400/-
12. Rajmah                      200/-
13. Dal Makhani                 500/-
14. Kadhai Pakora               300/-
15. Dal Tadka                   200/-
16. Veg Handi                   400/-
17. Aloo Mutter                 300/-
18. Veg Kadhai                  500/-
19. Sev Bhaji                   400/-
20. Veg Rice                    200/-

Enter the number of your order : 9
your order is: Poori Bhaji
your price is: 300/-

Any more dishes?
1. Yes
2. No 2


Any desert dishes you want ?
1. Yes
2. No 1

1. Almond Cake                  850/-
2. Raspberry Cheese Cake        680/-
3. Classic Tiramisu             650/-
4. Mud Pie                      450/-
5. Creme Carmel                 550/-
6. Peach Snap Roll              650/-
7. Gulkand Gulab Jamun          550/-
8. Fresh Fruit Salad            450/-
9. Chocolate brownie            650/-
10. Chocolate Cake              950/-

Enter your desert dish number : 3

Your Order is : Classic Tiramisu
 MRP = 650/-

Any drinks you want ?
1. Yes
2. No 1

Choose the drinks from below :
1. Sprite                       30/-
2. Banana milkshake             120/-
3. Pepsi                        40/-
4. Choclate milkshake           200/-
5. Black Tea                    30/-
6. Nescafe coffee               80/-
7. Strawberry milkshake         120/-
8. Cola                         70/-
9. Slice                        50/-
10. Lemon Juice                 60/-

Enter your juice number : 7

Your drink is strawberry milkshake.
MRP : 120/-

Your name : NAME

Enter your city name  : Mumbai

Enter your pin code : 400002

Enter your building/house number please : 1102

Enter your mobile number (Note : It should be working !) : 9123456789


Are you sure to confirm your order ?
1. Yes
2. No 1

Ordering....
Ordered successfully !
Thanks for ordering from our restuarant !
Your order will be place to you within 20 minutes.
```

Conclusion

In conclusion, the presented C program offers a comprehensive simulation of a restaurant management system, combining elements of table reservation and online food ordering. Through a user-friendly interface, the program engages users in a dynamic and immersive experience, allowing them to make tailored choices for their dining preferences. The table reservation feature provides flexibility for users to book tables based on the nature of their gatherings, whether it's a family event, a meeting with friends, or an individual visit. The inclusion of room preferences, such as AC or non-AC, enhances the personalization of the reservation process. The simulated acknowledgment of the booked table contributes to a sense of anticipation and completion.

On the online food ordering front, the program introduces an extensive menu with diverse meal plans, catering to both vegetarian and non-vegetarian preferences. Users can navigate through the menu, select specific dishes, and view corresponding prices. The program's use of simulated delays and visual effects during the ordering process adds a touch of realism to the virtual interaction, replicating the excitement associated with placing a live order.

Additionally, the program allows users to enhance their dining experience by selecting desserts and drinks, further personalizing their orders. The simulated confirmation process, which collects personal details and prompts users to verify their orders, adds a layer of authenticity to the overall experience. While the program successfully captures the essence of restaurant operations in a simulated environment, there are opportunities for refinement, such as improving code organization, adopting consistent formatting, and minimizing the use of certain programming constructs like goto statements. In essence, this program serves as an interactive tool that provides users with a glimpse into the intricacies of restaurant management, offering a simulated yet engaging experience that mirrors real-world interactions within a dining establishment.