

ESFP Project

Institute of Computer Technology

B. Tech. Computer Science and Engineering

Sub : ESFP – I (2CSE102)

Project - 8

Objectives: An (Hospital MS) Hospital management system takes following input.

- 1) Patient's Name
- 2) Age
- 3) Doctor's Name
- 4) Room Type
- 5) Room Number
- 6) Disease diagnosed
- 7) Case Type
- 8) No of person with patient
- 9) Contact Number
- 10) Address
- 11) Discount Offered

● Based on above inputs it will display the total bill along with following condition.

- If the customer's age is above 60, then senior citizen discount of 20% is offered on total billed amount.
- 10 % discount is offered in case of burnt cases.
- 5 % discount is offered to customer's if the total bill exceeds 10000/-
- 2 % extra discount is offered on recommendations by specific doctor.
- If, the case type is an emergency case, then visiting charges are not counted.

- ICU is allotted as room type for serious case type.

Output :

Patient's Name	Contact Number	Doctor's Name	Address	Age	Case Type

No of person with patient	Disease diagnosed	Room Type	Discount offered	Total Bill to be payed	

Algorithm :

step 1: Start

step 2: Declare variables

patient_name[15],special_doctor[15],normal_doctor[15],doctor_name[15],non_emergency_diagnosis[15],emergency_diagnosis[15],diseases_diagnosed[15],

address[515],icu_room[15],normal_room[15],room_type[15],burnt_case[15],normal_case[15],case_type[15],contact_number[15],age,room_number,no_p_patient,total_bill=10000,
visiting_charge=2000,a,b,c,d,e,f,g,h.

step 3: Input-patients name.

step 4: Input-Age.

step 5: if age is between 0-60 then no discount is offered else 20% discount is offered on total bill .

step 6 : if there is specific doctor then 2% discount provided on total bill else no discount and input doctor name.

step 7 if there is emergency then ICU room is allocated with extra charge of 2000 on total bill and input room type.

step 8: Input Room number.

step 9: if there is emergency then visiting charges are not taken else taken and input diseases diagnosed.

step 10: if there is burnt case then 10% discount is provided to total bill else no discount input case type.

step 11: Input number of persons with patient.

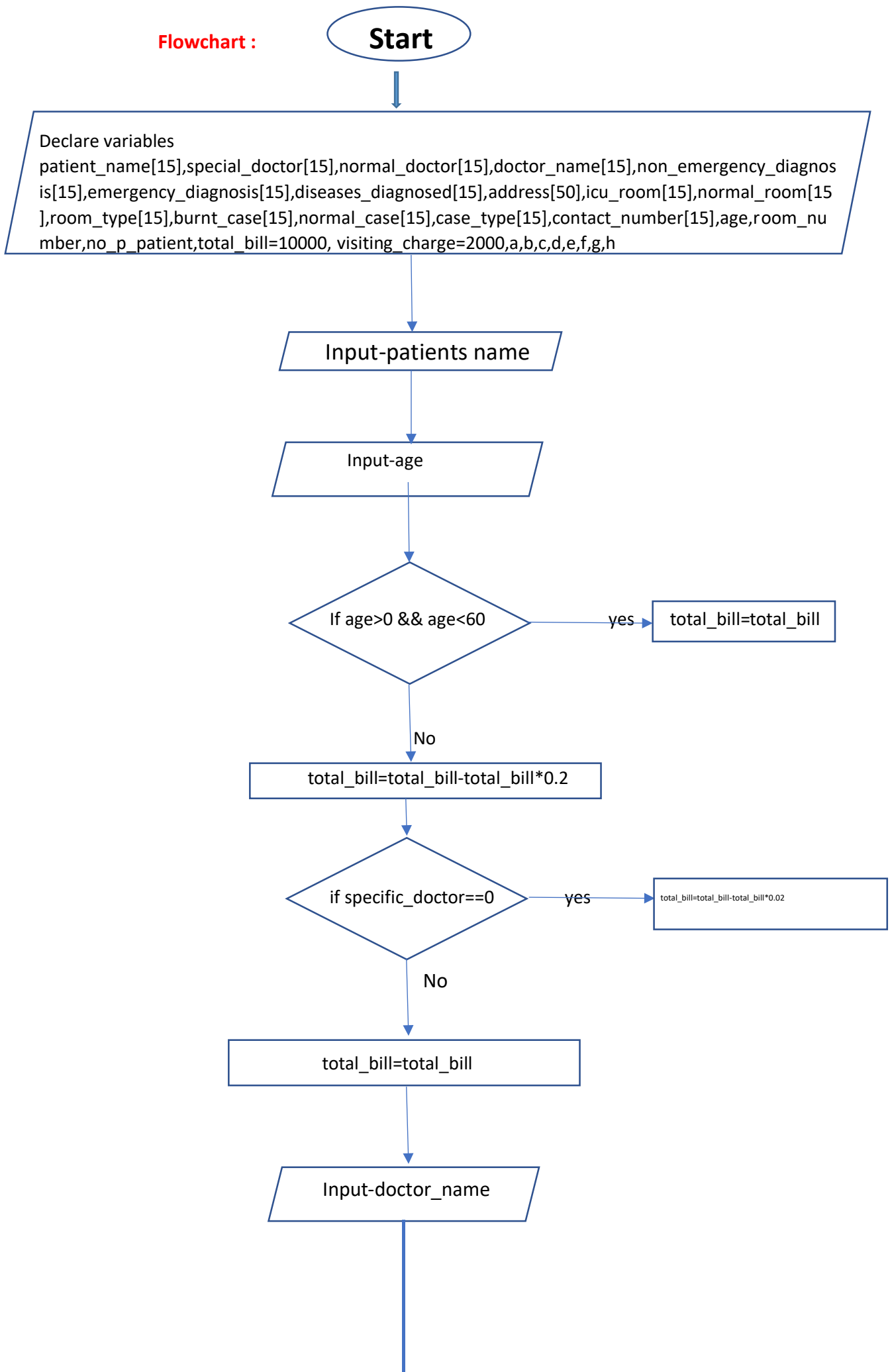
step 12: Input contact number.

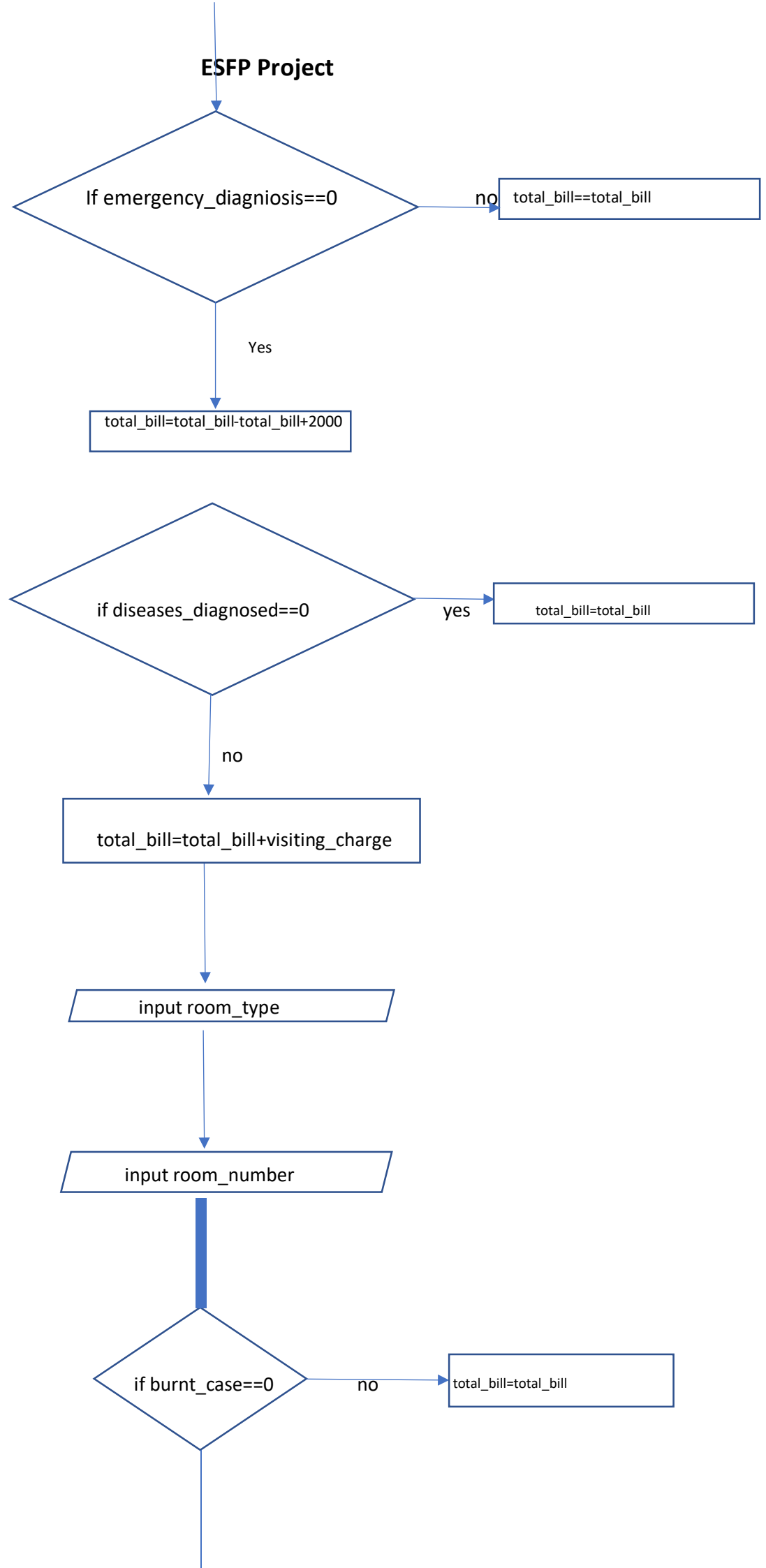
step 13: Input address

step 14: print output.

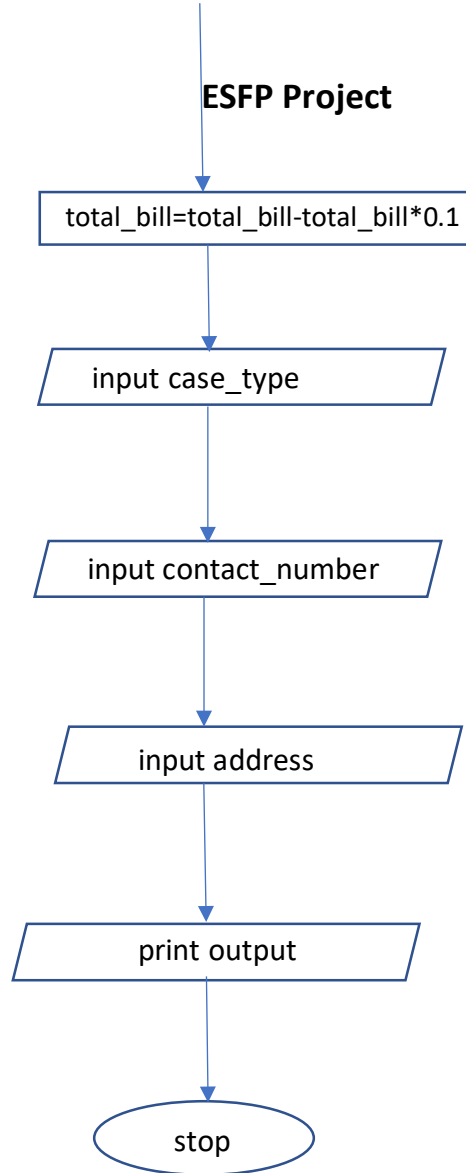
step 15: stop.

Flowchart :





ESFP Project



Code :

```

#include<stdio.h>
#include<string.h>
struct hospital{
    char
    patient_name[15],special_doctor[15],normal_doctor[15],doctor_name[15],non_emergency_diagn
    osis[15],emergency_diagnosis[15],diseases_diagnosed[15],address[515],icu_room[15],normal_roo
    m[15],room_type[15],burnt_case[15],normal_case[15],case_type[15],contact_number[15];
    int age,room_number,no_p_patient;
}detail;
int main()
{
    int total_bill=10000,visiting_charge=2000;
    int a,b,c,d,e,f,g,h;
    struct hospital detail;
    printf("1) Patients Name:");
    scanf("%s",&detail.patient_name);
  
```

```
printf("2) Age:");
scanf("%d",&detail.age);
if(detail.age<60 && detail.age>0)
{
    total_bill=total_bill;
}
else
{
    total_bill=total_bill-total_bill*0.2;
}
printf("3) Specific Doctor(Yes Or No):");
scanf("%s",&detail.special_doctor);
a = strcmp(&detail.special_doctor,"yes");
if(a==0){
    printf("Doctor Name :");
    scanf("%s",&detail.doctor_name);
    total_bill=total_bill-total_bill*0.02;
}
printf("Normal Doctor(Yes Or no):");
scanf("%s",&detail.normal_doctor);
e = strcmp(&detail.normal_doctor,"yes");
if(e==0){
    printf("Doctor Name :");
    scanf("%s",&detail.doctor_name);
    total_bill=total_bill;
}
printf("4) ICU room(Yes Or no):");
scanf("%s",&detail.icu_room);
b = strcmp(&detail.icu_room,"yes");
if(b==0){
    printf("Room Type(ICU):");
    scanf("%s",&detail.room_type);
    total_bill=total_bill+2000;
}
printf(" Normal room(Yes Or no):");
scanf("%s",&detail.normal_room);
f = strcmp(&detail.normal_room,"yes");
if(f==0){
    printf("Room Type(Normal):");
    scanf("%s",&detail.room_type);
    total_bill=total_bill;
}
printf("5) Room Number:");
```

```
scanf("%d",&detail.room_number);
printf("6) Emergency Diagnosis(yes Or no):");
scanf("%s",&detail.emergency_diagnosis);
c = strcmp(&detail.emergency_diagnosis,"yes");
if(c==0){
    printf("Diseases Diagnosed:");
    scanf("%s",&detail.diseases_diagnosed);
    total_bill=total_bill;
}
printf("Non Emergency Diagnosis(yes Or no):");
scanf("%s",&detail.non_emergency_diagnosis);
g = strcmp(&detail.non_emergency_diagnosis,"yes");
if(g==0){
    printf("Diseases Diagnosed:");
    scanf("%s",&detail.diseases_diagnosed);
    total_bill=total_bill+visiting_charge;
}
printf("7) Burnt Case(yes Or no):");
scanf("%s",&detail.burnt_case);
d = strcmp(&detail.burnt_case,"yes");
if(d==0){
    printf("Case Type(Burnt):");
    scanf("%s",&detail.case_type);
    total_bill=total_bill-total_bill*0.1;
}
printf("Normal case(yes Or no):");
scanf("%s",&detail.normal_case);
h = strcmp(&detail.normal_case,"yes");
if(h==0){
    printf("Case Type(Normal):");
    scanf("%s",&detail.case_type);
    total_bill=total_bill;
}
printf("8) No Of Person With Patient:");
scanf("%d",&detail.no_p_patient);
printf("9) Contact Number:");
scanf("%s",&detail.contact_number);
printf("10) Address:");
scanf("%s",&detail.address);
```