PROJECT

Question: A (Society Water Bill MS) Society Water management system takes following input

- 1) House's Number
- 2) Contact person
- 3) House Age
- 4) Contact Number
- 5) Registry Status
- 6) Basic Rental Amount
- 7) Tax charged
- 8) House Type(Bungalow/Duplex/Flat)
- 9) Number of flats
- 10) Date of payment
- 11) Maintenance Tax

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

Condition

- If the house's age is above 5 years in the society then tax charged on basic rental is 5% of it.
- If the house type is bungalow then 4% extra tax is added for maintenance.
- 7% extra tax is added for maintenance for duplex house.
- 10% is charged if the number of flats at particular address exceeds 5.

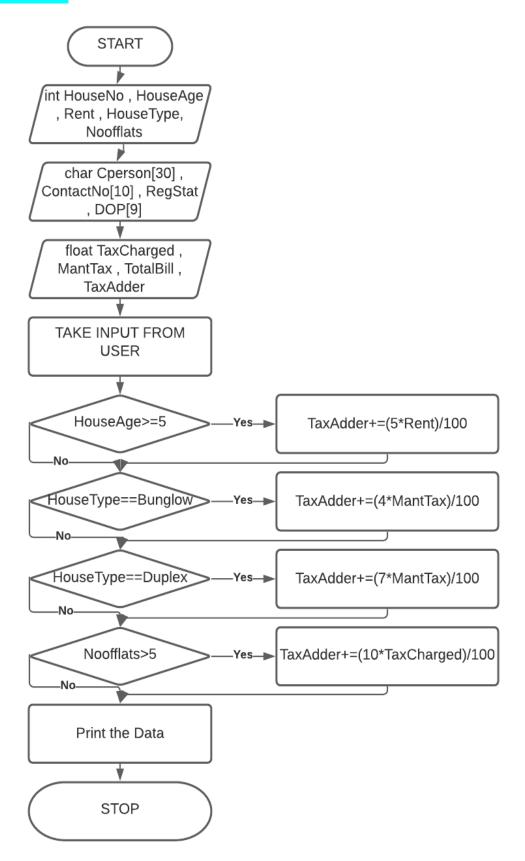
Expected Output:

House Number	Contact Number	House Type	Regist ry Status	Basic Rental Amount
Number of flats	Maintenan ce Tax	Date of payment	Tax added	Total amount to be payed

Algorithm:

- Step 1: Start.
- Step 2: Create structure using following variable.
- Step 2.1: Integer: HouseNo, HouseAge, Rent, HouseType, Noofflats.
- Step 2.2: Character Array: Cperson, ContactNo, DOP.
- Step 2.3: Character: RegStat.
- Step 2.4: Floating Point: TaxCharged=0, MantTax, TotalBill, TaxAdder.
- Step 3: Take input from user according to question.
- Step 4: Check for HouseAge>=5 if true goto step 4.1 else step 5.
- Step 4.1: TaxAdder + = (5*Rent)/100;
- Step 5: Check for HouseType if Bunglow goto step 5.1 else goto step 6.
- Step 5.1: TaxAdder + = (4*MantTax)/100;
- Step 6: Check for HouseType if Duplex goto step 6.1 else goto step 7.
- Step 6.1: TaxAdder+=(7*MantTax)/100;
- Step 7: Check if Noofflats>5 if true goto step 7.1 else goto step 8.
- Step 7.1: TaxAdder+=(10*TaxCharged)/100;
- Step 8: Print output according to question.
- Step 10: Stop.

Row Chat:



Code:

/*

(Society Water Bill MS) Society Water management system takes following input

- 1) House Number
- 2) Contact person
- 3) House Age
- 4) Contact Number
- 5) Registry Status
- 6) Basic Rental Amount
- 7) Tax charged
- 8) House Type(Bungalow/Duplex/Flat)
- 9) Number of flats
- 10) Date of payment
- 11) Maintenance Tax

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

If the houses age is above 5 years in the society then tax charged on basic rental is 5% of it.

If the house type is bungalow then 4% extra tax is added for maintenance.

7% extra tax is added for maintenance for duplex house. 10% is charged if the number of flats at particular address exceeds 5.

*/

//Header files
#include<stdio.h>
#include<conio.h>
#include<string.h>

```
struct socity
{
       int HouseNo, HouseAge, Rent, HouseType, Noofflats;
       char Cperson[30], ContactNo[11], RegStat, DOP[9];
       float TaxCharged, MantTax, TotalBill, TaxAdder;
}S[10];
int i=0;
void dummy();
void input();
void display(int i);
void displayall();
void search();
void main()
{
       int choice;
       do{
              clrscr();
              printf("----WENU-----");
              printf("\n1.NEW ENTERY");
              printf("\n2.SEARCH ENTERY");
              printf("\n3.PRINT ALL ENTERY");
              printf("\n4.EXIT");
              printf("\nEnter your choice : ");
              scanf("%d",&choice);
              switch(choice)
                     case 1:
```

```
input();
                              break;
                      case 2:
                              clrscr();
                              //printf("Hello");
                              search();
                              getch();
                              //printf("SEARCH");
                              break;
                      case 3:
                              clrscr();
                              displayall();
                              //printf("Display all");
                              getch();
                              break;
                      default:
                              choice=0;
               }
       } while(choice!=0);
}
void dummy(float *a)
{
       float b=*a;
       dummy(&b);
}
void input()
{
       float add=0;
       clrscr();
```

```
printf("Enter the House Number
                                        : ");
printf("\nEnter the House Age
                                        : ");
printf("\nEnter the House Rent
printf("\nEnter the Contact Person Name
printf("\nEnter the Contact Number
                                           : ");
printf("\nEnter the Regesteration Status (Y/N): ");
printf("\nEnter the Date of Payment (DDMMYYYY) : ");
printf("\nEnter the Tax Charged
printf("\nEnetr the Mantenance Tax
                                          : ");
printf("\nEnter the House Type
                                         : ");
printf("\n\t->Bunglow");
printf("\n\t->Duplex");
printf("\n\t->Flat");
gotoxy(50,1);
scanf("%d",&S[i].HouseNo);
gotoxy(50,2);
scanf("%d",&S[i].HouseAge);
gotoxy(50,3);
scanf("%d",&S[i].Rent);
gotoxy(50,4);
gets(S[i].Cperson);
gets(S[i].Cperson);
gotoxy(50,5);
gets(S[i].ContactNo);
gotoxy(50,6);
scanf("%c",&S[i].RegStat);
gotoxy(50,7);
gets(S[i].DOP);
gets(S[i].DOP);
gotoxy(50,8);
scanf("%f",&S[i].TaxCharged);
```

```
gotoxy(50,9);
scanf("%f",&S[i].MantTax);
gotoxy(50,10);
scanf("%d",&S[i].HouseType);
S[i].Noofflats=0;
if(S[i].HouseType==3)
       gotoxy(1,14);
       printf("Enter number of flats
                                           : ");
       gotoxy(50,14);
       scanf("%d",&S[i].Noofflats);
       //printf("\n%d",S[i].Noofflats);
       //getch();
if(S[i].HouseType==1)
       //printf("\n%d",S[i].HouseType);
       add+=(4*S[i].MantTax)/100;
if(S[i].HouseType==2)
       //printf("\n%d",S[i].HouseType);
       add+=(7*S[i].MantTax)/100;
if(S[i].HouseAge >= 5)
       //printf("\nHouse Age = %d",S[i].HouseAge);
       add + = (5*S[i].Rent)/100;
if(S[i].Noofflats >= 5)
```

```
add+=(10*S[i].TaxCharged)/100;
             //printf("%f",add);
       S[i].TotalBill=S[i].TaxCharged+S[i].MantTax+add;
      //printf("\nT=%f\nA=%f",S[i].TotalBill,add);
       S[i].TaxAdder=add;
       //S[i].Noofflats=flats;
       //printf("\nT=\%f\nA=\%f",S[i].TotalBill,S[i].TaxAdder);
      display(i);
       ++i;
       getch();
}
void display(int j)
{
       char tl=218, tr=191, bl=192, br=217, hr=196, vr=179, RT=195, LT=180,
TT=193, BT=194, P=197;
      int i;
      clrscr();
       gotoxy(3,7);
       printf("%c",tl);
       for(i=0; i<14; ++i)
             printf("%c",hr);
       printf("%c",BT);
       for(i=0; i<17; ++i)
             printf("%c",hr);
       printf("%c",BT);
```

```
for(i=0; i<11; ++i)
             printf("%c",hr);
      printf("%c",BT);
      for(i=0; i<13; ++i)
             printf("%c",hr);
      printf("%c",BT);
      for(i=0; i<12; ++i)
             printf("%c",hr);
      printf("%c",tr);
      gotoxy(3,8);
      //printf("%c",vr);
      printf("%c HOUSE %c
                                 REGISTRY %c HOUSE %c CONTACT %c
BASIC %c",vr,vr,vr,vr,vr,vr);
      gotoxy(3,9);
      printf("%c NUMBER %c
                                              %c TYPE %c NUMBER %c
                                   STATUS
RENT %c",vr,vr,vr,vr,vr,vr);
      gotoxy(3,10);
      printf("%c",RT);
      for(i=0; i<14; ++i)
             printf("%c",hr);
      printf("%c",P);
      for(i=0; i<17; ++i)
```

```
printf("%c",hr);
printf("%c",P);
for(i=0; i<11; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<13; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<12; ++i)
       printf("%c",hr);
printf("%c",LT);
gotoxy(3,11);
printf("%c",vr);
gotoxy(10,11);
printf("\%d",S[j].HouseNo);\\
gotoxy(18,11);
printf("\%c",vr);
gotoxy(28,11);
printf("\%c",S[j].RegStat);\\
gotoxy(36,11);
printf("\%c",vr);
gotoxy(42,11);
printf("%d",S[j].HouseType);
gotoxy(48,11);
```

```
printf("%c",vr);
gotoxy(50,11);
printf("%s",S[j].ContactNo);
gotoxy(62,11);
printf("%c",vr);
gotoxy(66,11);
printf("\%d",S[j].Rent);
gotoxy(75,11);
printf("%c",vr);
gotoxy(3,12);
printf("%c",RT);
for(i=0; i<14; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<17; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0\;;\,i{<}\,11\;;\,+{+}i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<13; ++i)
       printf("%c",hr);
printf("%c",P);
```

```
for(i=0; i<12; ++i)
            printf("%c",hr);
      printf("%c",LT);
      gotoxy(3,13);
      printf("%c NUMBER %c MAINTENANCE %c TAX %c DATE OF %c
TOTAL %c",vr,vr,vr,vr,vr,vr);
      gotoxy(3,14);
      printf("%c OF FLATS %c
                                   TAX
                                           %c ADDED %c PAYMENT %c
AMOUNT %c",vr,vr,vr,vr,vr,vr);
      gotoxy(3,15);
      printf("%c",RT);
      for(i=0; i<14; ++i)
            printf("%c",hr);
      printf("%c",P);
      for(i=0; i<17; ++i)
            printf("%c",hr);
      printf("%c",P);
      for(i=0; i<11; ++i)
            printf("%c",hr);
      printf("%c",P);
      for(i=0; i<13; ++i)
            printf("%c",hr);
```

```
printf("%c",P);
for(i=0; i<12; ++i)
       printf("%c",hr);
printf("%c",LT);
gotoxy(3,16);
printf("%c",vr);
gotoxy(11,16);
printf("%d",S[j].Noofflats);
gotoxy(18,16);
printf("%c",vr);
gotoxy(22,16);
printf("\%f",S[j].MantTax);\\
gotoxy(36,16);
printf("%c",vr);
gotoxy(38,16);
printf("\%f",S[j].TaxAdder);\\
gotoxy(48,16);
printf("%c",vr);
gotoxy(51,16);
printf("\%s",S[j].DOP);
gotoxy(62,16);
printf("\%c",vr);
gotoxy(64,16);
printf("\%f",S[j].TotalBill);
gotoxy(75,16);
printf("%c",vr);
gotoxy(3,17);
printf("%c",bl);
```

```
for(i=0; i<14; ++i)
              printf("\%c",hr);
       printf("%c",TT);
       for(i=0; i<17; ++i)
              printf("%c",hr);
       printf("%c",TT);
       for(i=0; i<11; ++i)
              printf("%c",hr);
       printf("%c",TT);
       for(i=0; i<13; ++i)
              printf("%c",hr);
       printf("\%c",TT);
       for(i=0; i<12; ++i)
              printf("%c",hr);
       printf("%c",br);
       gotoxy(27,18);
       printf("ENTER ANY KEY TO CONTINUE...");
}
void displayall()
```

```
char tl=218, tr=191, bl=192, br=217, hr=196, vr=179, RT=195, LT=180,
TT=193, BT=194, P=197;
       int i;
       clrscr();
       printf("%c",tl);
       for(i=0; i<6; ++i)
              printf("%c",hr);
      printf("%c",BT);
       for(i=0; i<14; ++i)
              printf("%c",hr);
       printf("%c",BT);
       for(i=0; i<17; ++i)
              printf("%c",hr);
       printf("%c",BT);
       for(i=0; i<20; ++i)
              printf("%c",hr);
       printf("%c",BT);
       for(i=0; i<17; ++i)
              printf("%c",hr);
       printf("%c",tr);
```

printf("%c SNo. %c NAME %c CONTACT NO. %c DATE OF PAYMENT %c TOTAL BILL %c",vr,vr,vr,vr,vr,vr);

```
printf("%c",RT);
for(i=0; i<6; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<14; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<17; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<20; ++i)
       printf("%c",hr);
printf("%c",P);
for(i=0; i<17; ++i)
       printf("%c",hr);
printf("%c",LT);
for(i=0; i<::i; ++i)
       gotoxy(1,i+4);
```

```
printf("%c",vr);
       gotoxy(8,i+4);
       printf("\%c",vr);
       gotoxy(23,i+4);
       printf("%c",vr);
       gotoxy(41,i+4);
       printf("%c",vr);
       gotoxy(62,i+4);
       printf("%c",vr);
       gotoxy(80,i+4);
       printf("%c",vr);
       gotoxy(4,i+4);
       printf("\%d",i+1);
       gotoxy(11,i+4);
       printf("%s",S[i].Cperson);
       gotoxy(28,i+4);
       printf("%s",S[i].ContactNo);
       gotoxy(49,i+4);
       printf("\%s",S[i].DOP);
       gotoxy(65,i+4);
       printf("\%f",S[i].TotalBill);\\
gotoxy(1,i+4);
printf("%c",bl);
for(i=0; i<6; ++i)
       printf("%c",hr);
printf("\%c",TT);
for(i=0; i<14; ++i)
```

```
printf("%c",hr);
       }
       printf("%c",TT);
       for(i=0; i<17; ++i)
              printf("%c",hr);
       printf("%c",TT);
       for(i=0; i<20; ++i)
              printf("%c",hr);
       printf("%c",TT);
       for(i=0; i<17; ++i)
              printf("%c",hr);
       printf("%c",br);
}
void search()
{
       char name[30];
       int i, flag=0;
       printf("Enter the Person Name to Search : ");
       gets(name);
       gets(name);
       for(i=0; i<::i; ++i)
       {
              if(strcmp(name,S[i].Cperson)==0)
               {
```

```
display(i);
flag=1;
break;
}
if(flag==0)
{
    printf("\nSorry Data Not Found For Person Searched %s",name);
}
```

Output:

1) Menu

```
----MENU-----

1.NEW ENTERY

2.SEARCH ENTERY

3.PRINT ALL ENTERY

4.EXIT

Enter your choice :
```

2) New Entery : First Entery

```
Enter the House Number
Enter the House Age
                                                                   20
Enter the House Rent
                                                                   12000
Enter the Contact Person Name
                                                                   Kapish
Enter the Contact Number :
Enter the Regesteration Status (Y/N) :
Enter the Date of Payment (DDMMYYYY) :
Enter the Tax Charged :
                                                                   7624000000
                                                                   21012021
                                                                   1500.50
Enetr the Mantenance Tax
                                                                   600
Enter the House Type
                                                                   3
          ->Bunglow
->Duplex
           ->Flat
Enter number of flats
                                                                   10_
```

3)Output of First Entery

HOUSE NUMBER	REGISTRY STATUS	HOUSE TYPE	CONTACT NUMBER	BASIC RENT
2	Y	3	7624000000	12000
NUMBER OF FLATS	MA INTENANCE TAX	TAX ADDED	DATE OF PAYMENT	TOTAL AMOUNT
10	600.000000	95.050003	21012021	2195.550049

ENTER ANY KEY TO CONTINUE..._

4)New Enter: Second Entery

```
Enter the House Age : 5
Enter the House Age : 15000
Enter the Contact Person Name : Krupal Patel
Enter the Contact Number : 7624010000
Enter the Regesteration Status (Y/N) : N
Enter the Date of Payment (DDMTYYYY) : 30012021
Enter the Tax Charged : 2000
Enter the Mantenance Tax : 650
Enter the House Type : 1_

->Bunglow
->Duplex
->Flat
```

5)Output for Second Entery

HOUSE NUMBER	REGISTRY STATUS	HOUSE TYPE	CONTACT NUMBER	BASIC RENT
38	N	1	7624010000	15000
NUMBER OF FLATS	MA INTENANCE TAX	TAX ADDED	DATE OF PAYMENT	TOTAL AMOUNT
Θ	650.000000	120.000000	30012021	2770.000000

ENTER ANY KEY TO CONTINUE...

5)Search for entery Kapish



6)Output for Search

HOUSE	REGISTRY	HOUSE	CONTACT	BASIC
NUMBER	STATUS	TYPE	NUMBER	RENT
2	Y	3	7624000000	12000
NUMBER	MA INTENANCE	TAX	DATE OF	TOTAL
OF FLATS	TAX	ADDED	PAYMENT	AMOUNT
10	600.000000	95.050003	21012021	2195.550049

ENTER ANY KEY TO CONTINUE...

7)Print all entery

	L	TOTAL BILL	DATE OF PAYMENT	CONTACT NO.	NAME	SNo.
-		2195.550049 2770.000000				1 2

THE END