

IMPLEMENTATION

```
#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<ctype.h>

struct Medicine{

    int id,price,quantity;

    char medicineName[100],Company[100],Mfg_Date[11],Exp_Date[11],info[5000];

}m[100];

void PurchaseMedicine(int number);

void EnterInfoAboutMedicine(int number);

void StockOfMedicine(int number);

void KnowInfoAboutMedicine(int number);

void AddMedicineinStore(int number,struct Medicine m[]);

void DeleteMedicineStore(int number);

void ChangeMedicineDetails(int number);

main()

{

    int i,j,choice,number=0,c;

    for(i=0;i<100;i++)

    {

        m[i].id=0;

        m[i].price=0;

        m[i].quantity=0;

        strcpy(m[i].Mfg_Date,"");

        strcpy(m[i].Exp_Date,"");

        strcpy(m[i].medicineName,"");

        strcpy(m[i].Company,"");

        strcpy(m[i].info,"");
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}

m[0].id=1;

m[0].price=120;

m[0].quantity=30;

strcpy(m[0].Mfg_Date,"23-04-2016");

strcpy(m[0].Exp_Date,"24-04-2020");

strcpy(m[0].medicneName,"Paracetmol");

strcpy(m[0].Company,"ABCD");

strcpy(m[0].info,"Good Medicine for Fever");

do{

    printf("Enter\n1 - Purchase Medicine\n2 - Enter Information about a Medicine\n3 - Stock of
Medicine in Store\n4 - Medicine Information\n5 - Add Medicine\n6 - Delete a Medicine\n7 - Change
Quantity of Medicine\n");

    scanf("%d",&choice);

    switch(choice)

    {

    case 1:

    {

        PurchaseMedicine(number+1);

        break;

    }

    case 2:

    {

        EnterInfoAboutMedicine(number+1);

        break;

    }

    case 3:

    {

        StockOfMedicine(number+1);

        break;

    }

    case 4:

```

```

{
    KnowInfoAboutMedicine(number+1);
    break;
}
case 5:
{
    ++number;
    AddMedicineinStore(number,m);
    break;
}
case 6:
{
    DeleteMedicineStore(number+1);
    break;
}
case 7:
{
    ChangeMedicineDetails(number+1);
    break;
}
}
printf("To Continue with other Options Enter 1 Else any other number\n");
scanf("%d",&c);
}while(c==1);

}

void PurchaseMedicine(int number)
{
    int id,check,i,quantity,flag=0;
    char name[100];
    printf("Enter 1 if you know ID else any other number to enter Name of Medicine\n");

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```

fflush(stdin);

scanf("%d",&check);

if(check==1)
{
    printf("Enter Id to purchase Medicine\n");

    fflush(stdin);

    scanf("%d",&id);

    for(i=0;i<number;i++)
    {
        if(m[i].id==id)
        {
            flag=1;

            int c;

            printf("These are the details of Medicine\n");

            printf("Name%s\nPrice=%d\nAvailable Quantity=%d\nCompany=%s\nMfg Date=%s\nExp
Date=%s\n",m[i].medicneName,m[i].price,m[i].quantity,m[i].Company,m[i].Mfg_Date,m[i].Exp_Date
);

            if(strcmp(m[i].info,"")==0)
            {
                printf("Medicine Review/Info=Not Available\n");
            }
            else
            {
                printf("Medicine Review/Info=%s\n",m[i].info);
            }

            printf("Do you want to purchase %s \nIf Yes Enter 1 else any other
number\n",m[i].medicneName);

            fflush(stdin);

            scanf("%d",&c);

            if(c==1)
            {
                printf("Enter Quantity to Purchase\n");
            }
        }
    }
}

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```

scanf("%d",&quantity);
if(m[i].quantity>quantity)
{
    printf("Total Price to be paid=%d\n",quantity*m[i].price);
}
else{
    printf("Please Enter quantity below Available Quantity\n");
}
}
break;
}
}
if(flag==0)
{
    printf("Entered Id Not Found\n");
}
}
else
{
    printf("Enter Name to search and Purchase\n");
    fflush(stdin);
    gets(name);
    for(i=0;i<number;i++)
    {
        if(strcmp(m[i].medicneName,name)==0)
        {
            flag=1;
            int c;
            printf("These are the details of Medicine\n");

            printf("Name=%s\nPrice=%d\nAvailable Quantity=%d\nCompany=%s\nMfg Date=%s\nExp
Date=%s\n",m[i].medicneName,m[i].price,m[i].quantity,m[i].Company,m[i].Mfg_Date,m[i].Exp_Date
);

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```

if(strcmp(m[i].info,"")==0)
{
printf("Medicine Review/Info=Not Available\n");
}
else
{
printf("Medicine Review/Info=%s\n",m[i].info);
}

printf("Do you want to purchase %s \nIf Yes Enter 1 else any other
number\n",m[i].medicneName);

fflush(stdin);

scanf("%d",&c);

if(c==1)
{
printf("Enter Quantity to Purchase\n");

scanf("%d",&quantity);

if(m[i].quantity>quantity)
{
printf("Total Price to be paid=%d\n",quantity*m[i].price);
}
else{
printf("Please Enter quantity below Available Quantity\n");
}
}

break;
}
}

if(flag==0)
{
printf("Entered Name Not Found\n");
}

```

```
}  
}
```

```
void EnterInfoAboutMedicine(int number)  
{  
    int i,flag=0,c;  
    char name[100],info[100];  
    printf("Enter Name of the medicine you want to Review or include Info\n");  
    fflush(stdin);  
    gets(name);  
    for(i=0;i<number;i++)  
    {  
        if(strcmp(m[i].medicneName,name)==0)  
        {  
            flag=1;  
            printf("These are the details of Medicine\n");  
            printf("Name=%s\nPrice=%d\nAvailable Quantity=%d\nCompany=%s\nMfg Date=%s\nExp  
Date=%s\n",m[i].medicneName,m[i].price,m[i].quantity,m[i].Company,m[i].Mfg_Date,m[i].Exp_Date  
);  
            if(strcmp(m[i].info,"")!=0)  
            {  
                printf("Review Already Available!\nIf you want to Add a Review Enter 1 else Any other  
number\n");  
                fflush(stdin);  
                scanf("%d",&c);  
            }  
            else  
            {  
                printf("Enter review(less than 100 Characters)\n");  
                fflush(stdin);  
                gets(m[i].info);  
            }  
        }  
    }  
}
```

```

if(c==1)
{
printf("Enter review(less than 100 Characters)\n");
fflush(stdin);
gets(info);
strcat(m[i].info," ");
strcat(m[i].info,info);
}

}

}

if(flag==0)
{
printf("Entered Name Not Found\n");
}
}

void KnowInfoAboutMedicine(int number){
int i,flag=0;
char name[100];
printf("Enter Name of the medicine you want to see Review and Info\n");
fflush(stdin);
gets(name);
for(i=0;i<number;i++)
{
if(strcmp(m[i].medicneName,name)==0)
{
flag=1;
printf("These are the details of Medicine\n");

printf("Name=%s\nPrice=%d\nAvailable Quantity=%d\nCompany=%s\nMfg Date=%s\nExp
Date=%s\n",m[i].medicneName,m[i].price,m[i].quantity,m[i].Company,m[i].Mfg_Date,m[i].Exp_Date
);

if(strcmp(m[i].info,"")!=0)

```



```

{
    printf("Review or Info=%s\n",m[i].info);
}
else
{
    printf("Review or Info=Not Available\n");
}
}
}
if(flag==0)
{
    printf("Entered Name Not Found\n");
}
}
void StockOfMedicine(int number){
    int i;
    if(number!=0)
    {
        printf("All Available Items are\n");
        for(i=0;i<number;i++)
        {
            if(m[i].id!=0){
                printf("Id=%d\nName=%s\t\tPrice=%d\tAvailable Quantity=%d\nCompany=%s\t\tMfg
Date=%s\tExp
Date=%s\n",m[i].id,m[i].medicneName,m[i].price,m[i].quantity,m[i].Company,m[i].Mfg_Date,m[i].Ex
p_Date);
                if(strcmp(m[i].info,"")!=0)
                {
                    printf("Review or Info=%s\n",m[i].info);
                }
            }
        }
    }
    else
    {

```

```

    printf("Review or Info=Not Available\n");
}
}
}
}
else{
    printf("No Items or Medicines Available\n");
}
}

void AddMedicineinStore(int number,struct Medicine m[])
{
    char name[100];
    printf("Enter Medicine Id\n");
    scanf("%d",&(m[number].id));
    fflush(stdin);
    printf("Enter Medicine Name\n");
    fflush(stdin);
    gets(name);
    strcpy(m[number].medicineName,name);
    printf("Enter Company Name\n");
    fflush(stdin);
    gets(m[number].Company);
    printf("Enter Manufactured Date\n");
    fflush(stdin);
    gets(m[number].Mfg_Date);
    printf("Enter Expiry Date\n");
    fflush(stdin);
    gets(m[number].Exp_Date);
    printf("Enter Quantity\n");
    fflush(stdin);
    scanf("%d",&(m[number].quantity));

```

```

printf("Enter Price\n");
fflush(stdin);
scanf("%d",&(m[number].price));
strcpy(m[number].info,"");
printf("Medicine with id %d Added Successfully\n",m[number].id);
}

```

```

void DeleteMedicineStore(int number)

```

```

{
    int id,i,flag=0,num;
    printf("Enter Id to be deleted\n");
    fflush(stdin);
    scanf("%d",&id);
    for(i=0;i<number;i++)
    {
        if(m[i].id==id)
        {
            flag=1;
            m[i].id=0;
            m[i].price=0;
            m[i].quantity=0;
            strcpy(m[i].medicneName,"");
            strcpy(m[i].Company,"");
            strcpy(m[i].Mfg_Date,"");
            strcpy(m[i].Exp_Date,"");
            strcpy(m[i].info,"");
            num=i;
            break;
        }
    }
    if(flag==1)

```

```

{
    printf("Medicine with %d is Deleted Successfully\n",id);
}
}

```

```

void ChangeMedicineDetails(int number)

```

```

{
    int id,quantity,choice,c,i;
    printf("Enter id to change Details\n");
    scanf("%d",&id);
    for(i=0;i<number;i++)
    {
        if(m[i].id==id && m[i].id!=0)
        {
            do
            {
                printf("Enter\n1 - Change Quantity\n2 - Change Price\n3 - Change Name\n4 - Change
Company\n5 - Change Manufaturing Date\n6 - Change Expiry Date\n7 - Change Info\nAny other
number to exit");

                scanf("%d",&choice);

                if(choice==1)
                {
                    int quantity;

                    printf("Enter Quantity to be changed\n");

                    fflush(stdin);

                    scanf("%d",&quantity);

                    m[i].quantity=quantity;

                    printf("Quantity changed Successfully\n");

                }

                if(choice==2)
                {
                    int price;

```

```
printf("Enter Price to be changed\n");
fflush(stdin);
scanf("%d",&price);
m[i].price=price;
printf("Price changed Successfully\n");
}
if(choice==3)
{
char name[100];
printf("Enter Name to be changed\n");
fflush(stdin);
gets(name);
strcpy(m[i].medicineName,name);
printf("Medicine Name changed Successfully\n");
}
if(choice==4)
{
char company[100];
printf("Enter company to be changed\n");
fflush(stdin);
gets(company);
strcpy(m[i].Company,company);
printf("Company changed Successfully\n");
}
if(choice==5)
{
char mfg[11];
printf("Enter Manufacturing date to be changed\n");
fflush(stdin);
gets(mfg);
strcpy(m[i].Mfg_Date,mfg);
```

```

printf("Manufacturing Date changed Successfully\n");
}
if(choice==6)
{
char exp[11];
printf("Enter Expiry date to be changed\n");
fflush(stdin);
gets(exp);
strcpy(m[i].Exp_Date,exp);
printf("Expiry Date changed Successfully\n");
}
if(choice==7)
{
char info[100];
printf("Enter Info to be changed(Less than 100 Characters)\n");
fflush(stdin);
gets(info);
strcpy(m[i].info,info);
printf("Info changed Successfully\n");
}
if(choice<=0 && choice>7)
{
printf("Enter valid Choice\n");
}
printf("Enter 1 to Change other Details Else any other number\n");
fflush(stdin);
scanf("%d",&c);
}while(c==1);

break;
}

```

}

}

OUTPUT:

```
"C:\Users\lenovo\Desktop\Project Medical\Project Medical.exe"
Enter
1 - Purchase Medicine
2 - Enter Information about a Medicine
3 - Stock of Medicine in Store
4 - Medicine Information
5 - Add Medicine
6 - Delete a Medicine
7 - Change Quantity of Medicine
5
Enter Medicine Id
2
Enter Medicine Name
Sinarest
Enter Company Name
ABCDEF
Enter Manufactured Date
23-06-2016
Enter Expiry Date
23-06-2017
Enter Quantity
34
Enter Price
2
Medicine with id 2 Added Successfully
To Continue with other Options Enter 1 Else any other number
1
Enter
1 - Purchase Medicine
2 - Enter Information about a Medicine
3 - Stock of Medicine in Store
```