

```
#include<iostream>

#include<string>

#include<stdlib.h>

#include<fstream>

#include<windows.h>

#include<stdio.h>

#include<string.h>

#include<conio.h>

#include<unistd.h>

#include<time.h>

#include<iomanip>

using namespace std;

int wholecheck=0;

int counter1=0,counter;

fstream fin,fout,fturndoc,ftemp,fadmin,fcross,fsum;

class problems;

class Login;

class diabetes

{

    int id;

    char name[200];

    int age;

    float height;

    float weight;
```

```
char sex;

long long int phn;

public:

    friend class doctor;

    friend class problems;

    friend class Login;

    friend class adminstration;

    friend class patient;

    void twist();                //after thinking a lot i decided;

    void welcome();

    void enterdata();

    void doctorlist();

    void test();

    void totaltest();

    void search();

    void deldata();

    void prereport();

    void aboutme();

    void admin();

    void reply();

    void setlock();

    void queries();

    int report();

    int display(int,int);

    void showqu();
```

```
        void update();

        void adminre();

void patientlogin();

        void treatrecord();//left

}mainobj;
```

```
class Login

{

    public:

        friend class doctors;

        friend class problems;

        friend class diabetes;

        void password();

}passo;
```

```
class doctor

{

    public:

        friend class diabetes;

        int id;

        int idofdoc;

        struct date

        {
```

```

        int d,m,y;

    }st;

}docp;


class problems
{
    public:

        friend class diabetes;

    int id,vision,thirst,hunger,furine;//furine=urine frequency//
    char bg[2];

    int headche,fatigue;

    char fam,weight;

    char food;

    float sugarlevel;

    float blpressurenum,blpressuredem;

    float bloodcount;

    float glucoselevel;

    float glucose1;

}objp;

class bill
{

    friend class doctor;

    friend class problems;

    friend class Login;

```

```

        friend class adminstration;

        friend class patient;

    public:

    int id;

    int billid;

        int sum;

        enum fee{Thakur=1000,Grover=1500,Chawla=1500,Joradan=2000,JazzyB=3000};

    void total();

}bobj;

class patient
{
    public:

        friend class problems;

        friend class diabetes;

        friend class quick;

        friend class doctor;

        int buyid;

        void updatemine();

        void buy();

        void medicare();

        void diseaselevel();

        void seem();

        void complaints();

        void docchange();

```

```

        char comp[2000];

        char send[2000];

    }pa;

class adminstration
{
    private:

        int id;          //patientid

        int stid;        //staffid

        char name[30];    //staffname

        char dname[30];   //doctorname 1st thought of in doctorlist but failed

        int did;         //doctor id

        long long int phna;

        char userid[30];  //staff user id

        char password[30]; //password staff

    public:

        int medid;        //medicine id

        char medicines[300]; //medicine name

        float medprice;    //price

        char re[200];

        friend class problems;

            friend class diabetes;

            friend class doctor;

            friend class paitent;

        void stpassword();

```

```

        void medi();          //medicine name provider along price

        void calcbill();      //along with medicines and doctor fees if no medi then only that

        void adddoc();        //junior doctors

void adminsi();

void count();

void duty();

void complains();

void msgs();

        //class risk

        //{

        //      public:


        //};

}admino;

class discuss

{

    public:

        friend class diabetes;

        friend class doctors;

        friend class patient;

        friend class problems;

        friend class adminstration;

```

```

        int id;

        char name[20];

        char reply[200000];

        char input[200000];

    }q;

class finalreport

{

    public:

        friend class diabetes;

        friend class doctors;

        friend class patient;

        friend class problems;

        int id;          // to detect

        char dbresult;    //level

}freport;

class quick

{

    char name[300];

    int gid;

    int age;

    float sugar;

    float weight;

    float bodytemp;

        int mchoice;

```



```
void buy();

public:

    friend class diabetes;

    friend class patient;

    quick()

    {

        char ch;

system("cls");

        char chwer[]={"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\tWe judge we understand!\n"};

        int l=strlen(chwer);

        int kk;

        for(kk=0;kk<l;kk++)

        {

            Sleep(10);

            cout<<chwer[kk];

        }

        char

chwer1[]={"++++++  
++++++  
++++++\n\n"};

        l=strlen(chwer1);

        for(kk=0;kk<l;kk++)

        {

            Sleep(10);

            cout<<chwer1[kk];

        }
```

```
char chwer2[]={"\t\t\t\t\t ....SJS Enterprise....\n\n"};

l=strlen(chwer2);

for(kk=0;kk<l;kk++)

{

    Sleep(10);

    cout<<chwer2[kk];

}

cout<<"\n\n Enter the name : ";

fflush(stdin);

gets(name);

srand((time(NULL)));

gid=rand()%1161400+200000;

cout<<"\n\n ID Generated : ";

cout<<gid;

cout<<"\n\n Enter Age : ";

cin>>age;

cout<<"\n\n Do you Symptons like becoming//having :\n\n 1>THIRSTY 2>Weight Loss
3>Fatigueness 4>Vision Problem 5>Frequent Urine 6>Increased Hunger ??\n\n";

cout<<" Enter Y for Yes : ";

cin>>ch;

if(ch=='y' || ch=='Y')

cout<<"\n\n You may have the chances of diabetes, as Because these are the key symptons of
it!!";

else

cout<<"\n\n You may not have the diabetes but it is still not sure!!";
```

```
cout<<"\n\n Let the nurse take your blood sample ";
sleep(2);

cout<<"\n\n Please Wait Taking Blood Sample ";
sleep(2);

cout<<"\n\n Analyzing Blood Samples ";
sleep(2);

cout<<"\n\n Thanks for being paitent ";
sleep(2);

cout<<"\n\n TEST INITIALIZED : ";

cout<<"\n\n Enter the weight : ";

cin>>weight;

cout<<"\n\n Enter the glucometer readings : ";

cin>>sugar;

cout<<"\n\n Enter the body temperature : ";

cin>>bodytemp;

cout<<"\n\n+++++
+++++
+++++
+++++\n\n";

cout<<"\t\t\t\t\t\t\t Generating Report ";

cout<<"\n\n Analyzing Symtons ";

sleep(1);

cout<<"\n\n Analyzing Blood Sample ";

sleep(1);

cout<<"\n\n Analyzing Body temperature ";

sleep(1);
```

```
cout<<"\n\n Getting things done ";

sleep(2);

system("cls");

    cout<<"\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\t\t\t\tWe
judge we understand!\n";

        cout<<"+++++
+++++
+++++
+++++
+++++\n\n\n";

            cout<<"\t\t\t\t\t\t ....SJS Enterprise....\n\n";

            cout<<"\t\t\t\t\t\t\tREPORT";

            cout<<"\n\n Name : "<<name;

            cout<<"\n\n Age : "<<age;

            cout<<"\n\n Weight : "<<weight;

            cout<<"\n\n Body Temp : "<<bodytemp;

        cout<<"\n\n";

        int blood;

        srand(time(NULL));

        blood=rand()%1+7;

        if(blood==1)

        {

            cout<<" Blood Group : "<<" A+ ";

        }

        else if(blood==2)

        {

            cout<<" Blood Group : "<<" A-";
```

```
}  
else if(blood==3)  
{  
    cout<<" Blood Group : "<<" B+";  
}  
else if(blood==4)  
{  
    cout<<" Blood Group : "<<" B-";  
}  
else if(blood==5)  
{  
    cout<<" Blood Group : "<<" O+";  
}  
else if(blood==6)  
{  
    cout<<" Blood Group : "<<" O-";  
}  
else if(blood==7)  
{  
    cout<<" Blood Group : "<<" AB+";  
}  
else if(blood==8)  
{  
    cout<<" Blood Group : "<<" AB-";  
}
```

```

else
{
    cout<<" Blood Group : "<<" O+";
}

float bloodcount;

srand(time(NULL));

bloodcount=rand()%4000+10000;

if(bloodcount<4500)
{
    cout<<"\n\n Blood Count : Low -> "<<bloodcount;
}

else if(bloodcount>=4500 && bloodcount<10000)
{
    cout<<"\n\n Blood Count : High -> "<<bloodcount;
}

float ha;

srand(time(NULL));

ha=rand()%10+9;

if(ha>=12 && ha<16)

cout<<"\n\n Hameoglobin level -> Normal : "<<ha<<" grams per deciliter";

if(ha<12)

cout<<"\n\n Hameoglobin level -> LOW : "<<ha<<" grams per deciliter";

if(ha>16)

cout<<"\n\n Hameoglobin level -> : "<<ha<<" grams per deciliter";

```

```

float cholesterol;

srand(time(NULL));

cholesterol=rand()%25+100;

if(cholesterol<=100)

cout<<"\n\n Cholesrtrol -> IDEAL -> "<<cholesterol<<" mg/dl";

else if(cholesterol>100 && cholesterol<=129)

cout<<"\n\n Cholesterol -> Close to Ideal -> "<<cholesterol<<" mg/dl";

else if(cholesterol>=130 && cholesterol<=159)

cout<<"\n\n Cholesrtrol -> Borderline -> "<<cholesterol<<" mg/dl";

else if(cholesterol>=160 && cholesterol<=189)

cout<<"\n\n Cholesrtrol -> High -> "<<cholesterol<<" mg/dl";

else if(cholesterol>=190 && cholesterol<=240)

cout<<"\n\n Cholesrtrol -> Highly Dangerous -> "<<cholesterol<<" mg/dl";


if(sugar>=5.00 && sugar<=7.5)

cout<<"\n\n Normal Sugar Level : ->No signs of Diabetes till now ";

else if(sugar>7.5 && sugar<8.5)

cout<<"\n\n High Sugar Level : Diabetes Level 1 :->May led to heart stroke ";

else if(sugar>=8.5)

cout<<"\n\n High Sugar Level : Diabetes Level 2 :->Can led to heart attack ";

else

cout<<"\n\n Low Sugar Level : ";

cout<<"\n\n This is on the basis of a simple test only please take appointment from doctor for much
more and clear understanding and for complete treatment\n\n";

cout<<"\n\n Generating Medicine Suggestions ";

```

```
sleep(5);

if(sugar>7.5 && sugar<8.5)

{

    system("cls");

        cout<<"\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

        cout<<"+++++
+++++
+++++
+++++
+++++\n\n\n";

        cout<<"\t\t\t\t\t\t ....SJS Enterprise....\n\n";

        cout<<"\t\t\t\t\t\t\t\tMedicines";

        cout<<"\n\n 1. NovoLog \n\n 2. Novolin \n\n 3. Humulin \n\n 4. Humalog \n\n 5. Apidra \n\n";

        srand(time(NULL));

        mchoice=rand()%4+1;

        cout<<"\n\n YOU CAN TAKE ANY OF THESE BUT ITS BETTER IF YOU TAKE OPTION : "<<mchoice;

        cout<<"\n\n Suggested Medicine : ";

        if(mchoice==1)

            cout<<"Novolog";

        else if(mchoice==2)

            cout<<"Novolin";

        else if(mchoice==3)

            cout<<"Humulin";

        else if(mchoice==4)

            cout<<"Humalog";

        else if(mchoice==5)
```



```
cout<<"Apidra";

cout<<"\n\n Take 2 tablets Per day after meal";

cout<<" \n\n Before Buying We would like you to take full test ";

cout<<" If you want to buy you can buy Press Y ";

cout<<" Your Choice : ";

char ch2;

cin>>ch2;

if(ch2=='Y' || ch=='y')

    buy();

else

    mainobj.twist();

}

else if(sugar>=8.5)

{

    system("cls");

    cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\tWe judge we understand!\n";

    cout<<"++++++  
++++++  
++++++  
++++++  
++++++\n\n";

    cout<<"\t\t\t\t\t ....SJS Enterprise....\n";

    cout<<"\t\t\t\t\tMedicines";

    cout<<"\n\n 1. Precose \n\n 2. Miglitol \n\n 3. Kazano \n\n 4. Glucovance \n\n 5. Actoplus  
\n\n";

    srand(time(NULL));

    mchoice=rand()%4+1;
```

```

        cout<<"\n\n YOU CAN TAKE ANY OF THESE BUT ITS BETTER IF YOU TAKE OPTION : "<<mchoice;

        cout<<"\n\n Suggested Medicine : ";

        if(mchoice==1)

            cout<<"Precose";

        else if(mchoice==2)

            cout<<"Miglitol";

        else if(mchoice==3)

            cout<<"Kazano";

        else if(mchoice==4)

            cout<<"Glucovance";

        else if(mchoice==5)

            cout<<"Actoplus";

        cout<<"\n\n Take 2 tablets Per day after meal";

        cout<<" \n\n Before Buying We would like you to take full test ";

        cout<<" If you want to buy you can buy Press Y ";

        cout<<" Your Choice : ";

        char ch2;

        cin>>ch2;

        if(ch2=='Y' || ch=='y')

            buy();

        else

            mainobj.twist();

    }

else

{

```

```
cout<<" No Medicine Required But keep Good Health and Diet";  
}  
  
}  
  
};  
  
class diet  
{  
  
public:  
  
diet()  
{  
  
system("cls");  
  
char chwer[]={"\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH  
CARE\t\t\n\t\t\t\t\t\t\tWe judge we understand!\n"};  
  
int l=strlen(chwer);  
  
int kk;  
  
for(kk=0;kk<l;kk++)  
{  
  
Sleep(10);  
  
cout<<chwer[kk];  
  
}  
  
char  
chwer1[]={"++++++  
++++++  
++++++\n\n\n"};  
  
l=strlen(chwer1);  
  
for(kk=0;kk<l;kk++)  
{
```

```
Sleep(10);

cout<<chwer1[kk];

}


char chwer2[]={"\t\t\t\t\t ....SJS Enterprise...\n\n"};

l=strlen(chwer2);

for(kk=0;kk<l;kk++)

{

    Sleep(10);

    cout<<chwer2[kk];

}

char name[300],ch;

cout<<"\n\n Enter Your Name Please : ";

fflush(stdin);

gets(name);

cout<<"\n\n Enter weather you have diabetes or not(Y/N) ? ";

cout<<"\n\n Your Choice : ";

cin>>ch;

if(ch=='Y' || ch=='y')

{

    cout<<" Special Diet is to be followed !!";

    cout<<"\n\n Here We Go";

    sleep(1);cout<<"\nn1\t\t";sleep(1);cout<<"2\t\t";sleep(1);cout<<"3\t\t";

    system("cls");

    char chwer[]={"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe judge we understand!\n"};
```

```

        l=strlen(chwer);

        int kk;

        for(kk=0;kk<l;kk++)

        {

                Sleep(10);

                cout<<chwer[kk];

        }

        char
chwer1[]={"++++++
+++++
+++++\n\n"};

        l=strlen(chwer1);

        for(kk=0;kk<l;kk++)

        {

                Sleep(10);

                cout<<chwer1[kk];

        }


        char chwer2[]={"\t\t\t\t\t ....SJS Enterprise....\n\n"};

        l=strlen(chwer2);

        for(kk=0;kk<l;kk++)

        {

                Sleep(10);

                cout<<chwer2[kk];

        }

```

```
        cout<<"\n\n Healthy fats from nuts, olive oil, fish oils\n\n flax seeds, or avocados Fruits and  
vegetables—ideally fresh\n\n the more colorful the better\n\n whole fruit rather than juices High-fiber  
cereals and breads made from whole grains or legumes Fish and shellfish\n\n organic chicken or  
turkey\n\n High-quality protein such as eggs, beans, low-fat dairy, and unsweetened yogurt";
```

```
        cout<<"\n\n";
```

```
        cout<<" Brown or wild rice, riced cauliflower\n\n Sweet potatoes, yams, cauliflower mash \n\n  
Whole-wheat pasta, spaghetti squash \n\n High-fiber, low-sugar cereal \n\n Steel-cut or rolled oats";
```

```
        cout<<"\n\n";
```

```
    }
```

```
    else
```

```
    {
```

```
        cout<<"\n\n You can continue your normal diet : ";
```

```
    }
```

```
        sleep(8);
```

```
        mainobj.twist();
```

```
    }
```

```
};
```

```
void Login::password()
```

```
{
```

```
    system("cls");
```

```
    int i;
```

```
    char alogin[8],apassword[13];
```

```
    char login[]="Sujith";
```

```
    char pass[]="123";
```

```
    char iot;
```

```
    iot=getch();
```

```
system("cls");

char chwer[]={"\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\t\t\t\t\t\tWe judge we understand!\n"};

int l=strlen(chwer);

int kk;

for(kk=0;kk<l;kk++)

{

    Sleep(10);

    cout<<chwer[kk];

}

char

chwer1[]={"++++++++++++++++++++++++++++++++++++++++++++++++++++++\n\n\n"};

l=strlen(chwer1);

for(kk=0;kk<l;kk++)

{

    Sleep(10);

    cout<<chwer1[kk];

}

char chwer2[]={"\t\t\t\t\t\t\t ....SJS Enterprise....\n\n"};

l=strlen(chwer2);

for(kk=0;kk<l;kk++)

{

    Sleep(10);

    cout<<chwer2[kk];
```

```

    }

    char take[]={"\n\n Enter Login_id: "};

    int d1=strlen(take);

    for(kk=0;kk<d1;kk++)

    {

        Sleep(15);

        cout<<take[kk];

    }

    char a;

        cin>>alogin;

    if(strcmp(alogin,login)==0)

    {

        char take1[]={"\n\n Enter Password: "};

        d1=strlen(take1);

        for(kk=0;kk<=d1;kk++)

        {

            Sleep(15);

            cout<<take1[kk];

        }

        for(i=0;i<13;i++)

        {

            a=getch();

            if(a==13)

                break;

```



```

        else if(a==8)
        {
            if(i>0)

                cout<<"\b\b";

                i=i-2;

        continue;
        }

        if(i<0)

            i=0;

            else

                putchar('*');

                apassword[i]=a;
        }

        apassword[i]='\0';
if(strcmp(apassword,pass)==0)

    {

        char re[]={"\n\n\n Login Successfull\n\n "};

        int rp=strlen(re);

        int u;

        for(u=0;u<rp;u++)

        {

            Sleep(14);

            cout<<re[u];

        }

        sleep(2);

```

```

        wholecheck=1;

    }

    else

    {

        wholecheck=2;

        cout<<"\n\n Incorrect password";

    }

}

else

{

    cout<<"\n\n Invalid Login_id\\Username\n\n";

}

}

void diabetes::twist()

{

    system("cls");

    int ch;

    char chwer[]={"\t\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe judge we understand!\n"};

    int l=strlen(chwer);

    int kk;

    for(kk=0;kk<l;kk++)

    {

        Sleep(10);

        cout<<chwer[kk];

    }

}

```

```

char
chwer1[]={"++++++
+++++
+++++\n\n"};

```

```

l=strlen(chwer1);

```

```

for(kk=0;kk<l;kk++)

```

```

{

```

```

    Sleep(10);

```

```

    cout<<chwer1[kk];

```

```

}

```

```

char chwer2[]={"\t\t\t\t\t ....SJS Enterprise....\n\n"};

```

```

l=strlen(chwer2);

```

```

for(kk=0;kk<l;kk++)

```

```

{

```

```

    Sleep(10);

```

```

    cout<<chwer2[kk];

```

```

}

```

```

cout<<"\t\t\t\t\tChoose the operation \n\n 1-> PATIENT \n\n 2-> ADMIN \n\n 3-> QUERIES
\n\n 4-> QUERIES REPLY \n\n 5-> Quick Checkup\n\n 6-> Diet Planner \n\n 7-> Log Out\n\n 8-> Exit";

```

```

cout<<"\n\n Your Choice-> ";

```

```

cin>>ch;

```

```

switch(ch)

```

```

{

```

```

    case 1:

```

```

        welcome();

```

```

        break;

```

```
case 2:

setlock();

if(counter1!=0)

admin();

else

cout<<"\n\n Access Denied!! Terminating ";

sleep(3);

twist();

break;

case 3:

queries();

    break;

    case 4:

    showqu();

    break;

    case 5:

    quick();

    break;

    case 6:

    diet();

    break;

    case 7:

    cout<<"\n Logging Out.....\n\n";

    sleep(2);
```

```

        passo.password();

        break;

    case 8:

        cout<<"\n\n Exiting...\n\n";

        sleep(2);

        exit(0);

        break;

    default:

        cout<<" You have entered wrong key \n\n";

        break;

}

}

void diabetes:: welcome()

{

    system("cls");


    cout<<"\n";

    int ch;

    char check;

    A:

        char chwer[]={"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t We judge we understand!\n"};

        int l=strlen(chwer);

        int kk;

        for(kk=0;kk<l;kk++)

        {

```

```

        Sleep(10);

        cout<<chwer[kk];

    }

    char
chwer1[]={"++++++
+++++
+++++\n\n"};

    l=strlen(chwer1);

    for(kk=0;kk<l;kk++)

    {

        Sleep(10);

        cout<<chwer1[kk];

    }


    char chwer2[]={"\t\t\t\t\t ....SJS Enterprise....\n\n"};

    l=strlen(chwer2);

    for(kk=0;kk<l;kk++)

    {

        Sleep(10);

        cout<<chwer2[kk];

    }

    cout<<"\t\t\t\t\t CHOOSE THE OPTIONS FROM MENU\n\n 1: ENTER DATA\n\n 2:
GET\TAKE APPOINTMENT\n\n 3: LIST OF PAITENTS\n\n 4: TEST\n\n 5: Pre-Report\n\n 6: FINAL
REPORT\n\n 7: PATIENT-LOGIN\n\n 8: ABOUT DEVELOPER OF THIS CODE\n\n 9: EXIT\n\n";

    cout<<"\n YOUR CHOICE : ";

    cin>>ch;

    switch(ch)

```

```
{
```

```
case 1:
```

```
enterdata();
```

```
cout<<"\n Do You Want To Continue(y/n)\n";
```

```
cout<<" YOUR CHOICE: ";
```

```
cin>>check;
```

```
if(check=='y' || check=='Y')
```

```
{
```

```
system("cls");
```

```
goto A;
```

```
}
```

```
else
```

```
{
```

```
cout<<"\n\n\t\t\tThank You! Visit us Again\n";
```

```
break;
```

```
}
```

```
case 2:
```

```
doctorlist();
```

```
cout<<"\n Do You Want To Continue(y/n)\n";
```

```
cout<<" YOUR CHOICE: ";
```

```
cin>>check;
```

```
if(check=='y' || check=='Y')
```

```
{
```

```
system("cls");
```

```
goto A;
```

```

        }

        else

        {

            cout<<"\n\n\t\tThank You! Visit us Again\n";

            break;

        }

        case 3:

display(10,20);

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')

        {

            system("cls");

            goto A;

        }

        else

        {

            cout<<"\n\n\t\tThank You! Visit us Again\n";

            break;

        }

        case 4:

test();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

```



```
cin>>check;

if(check=='y' || check=='Y')
{
    system("cls");
goto A;
}

else
{
    cout<<"\n\n\t\tThank You! Visit us Again\n";
    break;
}

case 5:

prereport();

cout<<"\n Do You Want To Continue(y/n)\n";

cout<<" YOUR CHOICE: ";

cin>>check;

if(check=='y' || check=='Y')
{
    system("cls");
goto A;
}

else
{
    cout<<"\n\n\t\tThank You! Visit us Again\n";
    break;
```

```

    }

    case 6:

        report();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')

        {

            system("cls");

            goto A;

        }

        else

        {

            cout<<"\n\n\t\tThank You! Visit us Again\n";

            break;

        }

    case 7:

        patientlogin();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')

        {

            system("cls");

            goto A;

```

```
    }  
    else  
    {  
        cout<<"\n\n\t\t\tThank You! Visit us Again\n";  
        break;  
    }  
  
}
```

```
case 8:  
    aboutme();  
    cout<<"\n Do You Want To Continue(y/n)\n";  
    cout<<" YOUR CHOICE: ";  
    cin>>check;  
    if(check=='y' || check=='Y')  
    {  
        system("cls");  
        goto A;  
    }  
    else  
    {  
        cout<<"\n\n\t\t\tThank You! Visit us Again\n";  
        break;  
    }  
  
case 9:  
    cout<<" Exiting.... \n\n ";  
    sleep(2);
```

```

        twist();

        exit(0);

    }

}

main()

{

    system("color 61");

    int i=3;

    diabetes o;

    d:

    system("cls");

    passo.password();

        if(wholecheck==1)

        {

            mainobj.twist();

        }

    else if(wholecheck==2)

    {

        cout<<"\n\n Server Crashed due to heavy traffic or You Entered Incorrect Password\n";

        cout<<"\n\n Try Again in few seconds\n\n";

        char ch12[]={"\n\n Reloading in 5 seconds\n\n"};

        int kk,l;

        for(kk=0;kk<l;kk++)

        {

            Sleep(15);

```

```
        cout<<ch12[kk];

        }

char ch13[]={"\n\n Reloading in 4 seconds\n\n"};

l=strlen(ch13);

for(kk=0;kk<l;kk++)

{

    Sleep(15);

    cout<<ch13[kk];

    }

char ch14[]={"\n\n Reloading in 3 seconds\n\n"};

l=strlen(ch14);

for(kk=0;kk<l;kk++)

{

    Sleep(15);

    cout<<ch14[kk];

    }

char ch15[]={"\n\n Reloading in 2 seconds\n\n"};

l=strlen(ch15);

for(kk=0;kk<l;kk++)

{

    Sleep(15);

    cout<<ch15[kk];

    }

char ch16[]={"\n\n Reloading in 1 seconds\n\n"};

l=strlen(ch16);
```

```

for(kk=0;kk<l;kk++)
{
    Sleep(15);
    cout<<ch16[kk];
}

if(i>=1)
{
    goto d;
    i--;
}
else
    cout<<"\n\n Interface Locked due to many invalid tries\n\n";
}
}

void diabetes::enterdata()
{
    int i,num=0;

    fout.open("DIABETESDATA.txt",ios::app);

    system("cls");

    cout<<"\t\t\t\tWelcome!\n";

    cout<<"\n\t\t\tPLEASE FILL ALL THE REQUIRED DATA\n";

    cout<<"\n\n ";

    cout<<" Enter The no. of paitents : ";

    cin>>num;

    cout<<"\n\n ";

```

```
for(i=0;i<num;i++)  
  
    {  
  
        system("cls");  
  
        cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\n\t\t\t\t\t We  
judge we understand!\n";  
  
        cout<<"++++++  
++++++  
++++++\n\n";  
  
        cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";  
  
cout<<"_____  
_____\n\n\n";  
  
        cout<<"\n\n ";  
  
        cout<<" PLEASE ASK THE IDno. AND ENTER IT : ";  
  
        cin>>id;  
  
        cout<<"\n\n";  
  
            cout<<" 1 : ENTER NAME : ";  
  
            scanf("%s",name);  
  
            fflush(stdin);  
  
            cout<<"\n\n 2 : AGE : ";  
  
            cin>>age;  
  
            cout<<"\n\n 3 : SEX(M/F) : ";  
  
            cin>>sex;  
  
            cout<<"\n\n 4 : Height : ";  
  
            cin>>height;  
  
            cout<<"\n\n 5 : Weight : ";  
  
            cin>>weight;
```

```

        cout<<"\n\n 6 : Phone number : ";

        cin>>phn;

        fout.write((char*)&mainobj,sizeof(mainobj));

    }

    fout.close();

}

int diabetes::display(int a,int b)

{

    fin.open("DIABETESDATA.txt",ios::in);

    system("cls");

    cout<<"\t\t\t\tHere's the Data of all paitents\n\n\n";


    cout<<"\t ID\t |      NAME      | AGE | SEX | HEIGHT | WEIGHT | \n";

    while(fin.read((char*)&mainobj,sizeof(mainobj)))

    {

        cout<<"| "<<setw(9)<<id<<setw(10)<<"| "<<setw(15)<<name<<setw(20)<<"| "<<setw(5)<<age<<setw(5)<<"| "<<setw(5)<<sex<<setw(5)<<"| "<<setw(7)<<height<<setw(7)<<"| "<<setw(7)<<weight<<setw(7)<<"\t| \n\n";

    }

    fin.close();

}

void diabetes::search()

{

    system("cls");

    fin.open("DIABETESDATA.txt",ios::in|ios::out);

```



```

int tempid,k=0;

char check;

cout<<"\t\t\tDiabetes Health Care\t\n";

cout<<"\n Enter the id no. of patient : ";

cin>>tempid;

while(fin.read((char*)&mainobj,sizeof(mainobj)))

{

if(tempid==mainobj.id)

{

    k++;

    break;

}

}

if(mainobj.id==tempid)

{

    cout<<"\t ID\t |      NAME      | AGE | SEX | HEIGHT |
WEIGHT  |\n";

    cout<<"|"<<setw(9)<<id<<setw(10)<<"|"<<setw(15)<<name<<setw(20)<<"|"<<setw(5)<<age<<
setw(5)<<"|"<<setw(5)<<sex<<setw(5)<<"|"<<setw(7)<<height<<setw(7)<<"|"<<setw(7)<<weight<<setw
(7)<<"\t|\n\n";

    cout<<"\n ";

}

else

{

    cout<<" YOU HAVE ENTERED THE INVALID ID PLEASE TRY AGAIN \n";

}

fin.close();

```

```

}

void diabetes::test()
{
    system("cls");

    int dd,mm,yyyy;

    cout<<"\t\t\tDIABETES HEALTH CARE!\n\n";

    fin.open("DIABETESDATA.txt",ios::in|ios::out);

    fout.open("problems.txt",ios::app);

    fturndoc.open("Doctors1.txt",ios::in);

    int tempid,k=0,count=0;

    char check;

    cout<<"\t\t\tDiabetes Health Care\t\n";

    cout<<"\n\n Enter the id no. of patient : ";

    cin>>tempid;

    while(fin.read((char*)&mainobj,sizeof(mainobj)))
    {
        if(tempid==mainobj.id)
        {
            k++;

            break;
        }
    }

    if(mainobj.id==tempid)
    {

        cout<<"\n\n Enter today's date(dd/mm/yyyy) : ";
    }
}

```

```

cin>>dd>>mm>>yyyy;

while(fturndoc.read((char*)&docp,sizeof(docp)))
{
    if(dd==docp.st.d && docp.st.m==mm && docp.st.y==yyyy && tempid==docp.id)
    {
        count=1;

        break;
    }
    else
        count=0;
}

if(dd==docp.st.d && docp.st.m==mm && docp.st.y==yyyy && tempid==docp.id)
{
    objp.id=tempid;

    cout<<"\n\n Please Answer The following Questions\n\n\n";

    cout<<" Patient name: ";

    cout<<mainobj.name;

    cout<<"\n\n\n";

    cout<<" 1:Are you getting thirsty frequently.Enter the data accordingly(3-highly yes | |2-medium
yes | |1-low yes | |0-no)? -> ";

    cin>>objp.thirst;

    cout<<"\n\n\n";

    cout<<" 2:Are you getting hungry fast.Enter the data accordingly(3-highly yes | |2-medium
yes | |1-low yes | |0-no)? -> ";

    cin>>objp.hunger;

    cout<<"\n\n\n\n";

```

```
cout<<" 3:Are you getting urine frequently.Enter the data accordingly(3-highly yes | 2-medium yes | 1-low yes | 0-no)? -> ";
```

```
cin>>objp.furine;
```

```
cout<<"\n\n\n";
```

```
cout<<" 4:Do you get headaches?Enter the level(3-high | 2-medium | 1-low | 0-no)? -> ";
```

```
cin>>objp.headche;
```

```
cout<<"\n\n\n";
```

```
cout<<" 5:Do you feel fatiguess?Enter the level(3-high | 2-medium | 1-low | 0-no)? -> ";
```

```
cin>>objp.fatigue;
```

```
cout<<"\n\n\n";
```

```
cout<<" 6:How is your vision?Enter the level(3-highly Blurred | 2-Partially Blurred | 1-Sometimes Blurred | 0-no)? -> ";
```

```
cin>>objp.vision;
```

```
cout<<"\n\n 7.Was there anyy weight loss in your body in few days(y/n)?->";
```

```
cin>>objp.weight;
```

```
cout<<"\n\n\n";
```

```
cout<<" 8.Has any body in your family had diabetes before?(y/n)?->";
```

```
cin>>objp.fam;
```

```
cout<<"\n\n";
```

```
sleep(2);
```

```
system("cls");
```

```
cout<<"\n\n\n\t\t\t Thanks! Please Take the Test from doctor ";
```

```
cout<<"\n\n Taking Blood Sample : ";
```

```
cout<<"\n ";
```

```
sleep(2);
```

```
cout<<"\n\n Wait for some time \n ";
```

```

sleep(2);

cout<<"\n\n TESTING BLOOD \n ";

sleep(2);

cout<<"\n\n Please be patient and steady!! \n ";

sleep(2);

cout<<"\n\n Blood Test Complete\n ";

sleep(2);

cout<<"\n\n";

cout<<" Had a Meal or not(y/n) for past three hours? : ";

cin>>objp.food;

cout<<"\n\n Enter Readings of Glucometer : ";

cin>>objp.sugarlevel;

cout<<"\n\n\n";

cout<<" Enter the blood pressure(num) : ";

cin>>objp.blpressurenum;

cout<<" Enter the blood pressure(den) : ";

cin>>objp.blpressureden;

cout<<"\n\n\n";

cout<<"\n\n Enter the glucoselevel(sugar)(mg/dl)[This is Fasting Plasma Test(FPG)] -> : ";

cin>>objp.glucoselevel;

cout<<"\n\n Enter the glucoselevel(sugar1)(mg/dl)[This is Oral Glucose Tolerance Test(OGTT)] ->
: ";

cin>>objp.glucose1;

sleep(2);

cout<<"\n\n Test complete you may take the report at evening from reception.";

cout<<"\n\n\n";

```

```

fout.write((char*)&objp,sizeof(objp));

}

else

{

    cout<<"\n\n There's no appointment Booked for such person";

}

}

else

{

    cout<<"\n\n Invalid id Please Check and try again ";

}

fout.close();

fin.close();

fturndoc.close();

}

int diabetes::report()

{

    float checkdb1=0,checkdb2=0,checkdb3=0;

    system("cls");

    cout<<"\t\t\tDIABETES HEALTH CARE!\n\n\n";

    fin.open("DIABETESDATA.txt",ios::in);

    fout.open("problems.txt",ios::in);

    int tempid,k=0;

    char check;

    cout<<"\t\t\tDiabetes Health Care\t\n";

```

```

        cout<<"\n Enter the id no. of patient : ";

        cin>>tempid;

while(fin.read((char*)&mainobj,sizeof(mainobj)))

{

    if(tempid==mainobj.id)

    {

        while(fout.read((char*)&objp,sizeof(objp)))

        {

if(objp.id==tempid)

{

            k++;

            break;

        }

    }

    break;

}

}

if(mainobj.id==tempid )

{

        cout<<"\t ID\t |          NAME          | AGE | SEX | HEIGHT | WEIGHT

|\n";

        cout<<"|"<<setw(9)<<id<<setw(10)<<"|"<<setw(15)<<name<<setw(20)<<"|"<<setw(5)<<age<<s
etw(5)<<"|"<<setw(5)<<sex<<setw(5)<<"|"<<setw(7)<<height<<setw(7)<<"|"<<setw(7)<<weight<<setw
(7)<<"\t|\n\n";

        cout<<"\n\n";

        cout<<" 1.Thirst Level : ";

        if(objp.thirst==0)

```

```
cout<<" NO PROBLEM";  
  
else if(objp.thirst==1)  
  
cout<<" LOW";  
  
else if(objp.thirst==2)  
  
cout<<" MEDIUM";  
  
else if(objp.thirst==3)  
  
cout<<" HIGH";  
  
cout<<"\n\n";
```

```
cout<<" 2.Hunger Level: ";  
  
if(objp.hunger==0)  
  
cout<<" NO PROBLEM";  
  
else if(objp.hunger==1)  
  
cout<<" LOW";  
  
else if(objp.hunger==2)  
  
cout<<" MEDIUM";  
  
else if(objp.hunger==3)  
  
cout<<" HIGH";  
  
cout<<"\n\n";
```

```
cout<<" 3.Headche Level: ";
```



```
if(objp.headche==0)
cout<<" NO PROBLEM";
else if(objp.headche==1)
cout<<" LOW";
else if(objp.headche==2)
cout<<" MEDIUM";
else if(objp.headche==3)
cout<<" HIGH";
cout<<"\n\n";
```

```
cout<<" 4.Fatigue Level: ";
if(objp.fatigue==0)
cout<<" NO PROBLEM";
else if(objp.fatigue==1)
cout<<" LOW";
else if(objp.fatigue==2)
cout<<" MEDIUM";
else if(objp.fatigue==3)
cout<<" HIGH";
cout<<"\n\n";
```

```
cout<<" 5.Urine Frequency: ";  
if(objp.furine==0)  
cout<<" NO PROBLEM";  
else if(objp.furine==1)  
cout<<" LOW";  
else if(objp.furine==2)  
cout<<" MEDIUM";  
else if(objp.furine==3)  
cout<<" HIGH";  
cout<<"\n\n";
```

```
cout<<" 6.Vision: ";  
if(objp.furine==0)  
cout<<" NO PROBLEM";  
else if(objp.furine==1)  
cout<<" LOW PROBLEM";  
else if(objp.furine==2)  
cout<<" MEDIUM PROBLEM";  
else if(objp.furine==3)  
cout<<" HIGH PROBLEM";  
cout<<"\n\n";
```

[illegible]

```
+++++
+++++\n\n";
```

```
int blood;
```

```
srand(time(NULL));
```

```
blood=rand()%1+8;
```

```
if(blood==1)
```

```
{
```

```
    cout<<" Blood Group : "<<" A+ ";
```

```
}
```

```
else if(blood==2)
```

```
{
```

```
    cout<<" Blood Group : "<<" A-";
```

```
}
```

```
else if(blood==3)
```

```
{
```

```
    cout<<" Blood Group : "<<" B+";
```

```
}
```

```
else if(blood==4)
```

```
{
```

```
    cout<<" Blood Group : "<<" B-";
```

```
}
```

```
else if(blood==5)
```

```
{
```

```
    cout<<" Blood Group : "<<" O+";
```

```
}
```

```
else if(blood==6)
```

```

{
    cout<<" Blood Group : "<<" O-";
}
else if(blood==7)
{
    cout<<" Blood Group : "<<" AB+";
}
else if(blood==8)
{
    cout<<" Blood Group : "<<" AB-";
}
else
{
    cout<<" Blood Group : "<<" O+";
}

float bloodcount;
srand(time(NULL));
bloodcount=rand()%4000+10000;
if(bloodcount<4500)
{
    cout<<"\n Blood Count : Low -> "<<bloodcount;
}
else if(bloodcount>=4500 && bloodcount<10000)
{
    cout<<"\n Blood Count : High -> "<<bloodcount;
}

```

```

}

float ha;

srand(time(NULL));

ha=rand()%10+9;

if(ha>=12 && ha<16)

cout<<"\n\n Hameogloblin level -> Normal : "<<ha<<" grams per deciliter";

if(ha<12)

cout<<"\n\n Hameogloblin level -> LOW : "<<ha<<" grams per deciliter";

if(ha>16)

cout<<"\n\n Hameogloblin level -> : "<<ha<<" grams per deciliter";


float cholestrol;

srand(time(NULL));

cholestrol=rand()%90+200;

if(cholestrol<=100)

cout<<"\n\n Cholesrtrol -> IDEAL -> "<<cholestrol<<" mg/dl";

else if(cholestrol>100 && cholestrol<=129)

cout<<"\n\n Cholestrol -> Close to Ideal -> "<<cholestrol<<" mg/dl";

else if(cholestrol>=130 && cholestrol<=159)

cout<<"\n\n Cholesrtrol -> Borderline -> "<<cholestrol<<" mg/dl";

else if(cholestrol>=160 && cholestrol<=189)

cout<<"\n\n Cholesrtrol -> High -> "<<cholestrol<<" mg/dl";

else if(cholestrol>=190 && cholestrol<=240)

cout<<"\n\n Cholesrtrol -> Highly Dangerous -> "<<cholestrol<<" mg/dl";

```

```
cout<<"\n++++\n++++\n++++\n++++\n++++\n\n\n";
```

```
cout<<"\n\n 8.Fasting Plasma Glucose Test(FPG) : ";
```

```
if(objp.glucoselevel<100.00)
```

```
{
```

```
    cout<<" Glucose Level : Normal -> "<<objp.glucoselevel<<" mg/dl";
```

```
    checkdb1++;
```

```
}
```

```
else if(objp.glucoselevel>=100.00 && objp.glucoselevel<=125.00)
```

```
{
```

```
    cout<<" Glucose Level : Pre-Diabetes-> "<<objp.glucoselevel<<" mg/dl";
```

```
    checkdb2++;
```

```
}
```

```
else if(objp.glucoselevel>=126.00)
```

```
{
```

```
    cout<<" Glucose Level : High -> Diabetes II "<<objp.glucoselevel<<" mg/dl";
```

```
    checkdb2++;
```

```
    checkdb3++;
```

```
}
```

```
cout<<"\n\n 9.Oral Glucose Tolerance Test(OGTT) :- ";
```

```
if(objp.glucose1<140.00)
```

```
{
```

```
    cout<<" Glucose Level : Normal -> "<<objp.glucose1<<" mg/dl";
```

```

        checkdb1++;
    }
    else if(objp.glucose1>=140.00 && objp.glucose1<=199.00)
    {
        cout<<" Glucose Level : Higher than Normal (PRE-Diabetes)-> "<<objp.glucose1<<" mg/dl";
        checkdb2++;
    }
    else if(objp.glucose1>=200.00)
    {
        cout<<" Glucose Level : High -> Diabetes II"<<objp.glucose1<<" mg/dl";
        checkdb2++;
        checkdb3++;
    }

```

```

cout<<"\n\n 10.Sugar Level (Glucometer): ";
if(objp.food=='y' || objp.food=='Y')
{
    if(objp.sugarlevel>=9.0)
    {
        cout<<" High Sugar Level-II\n";
        checkdb2++;
        checkdb3++;
    }
    else if(objp.sugarlevel<9.0 && objp.sugarlevel>7.5)

```



```
{  
    cout<<" High Sugar Level\n";  
    checkdb2++;  
}  
  
else if(objp.sugarlevel>4.0 && objp.sugarlevel<7.4)  
{  
    cout<<" Normal Sugar Level\n";  
    checkdb1++;  
}  
  
else  
    cout<<" Low Sugar Level\n";  
}  
  
else if( objp.food=='n' || objp.food=='N')  
{  
    if(objp.sugarlevel>7.0)  
    {  
        cout<<" High Sugar Level\n";  
        checkdb2++;  
    }  
    else if(objp.sugarlevel>4.0 && objp.sugarlevel<5.9 )  
    {  
        cout<<" Normal Sugar Level\n\n";  
        checkdb1++;  
    }  
    else
```

```

{

cout<<" Low Sugar Level\n\n";

}

cout<<"\n\n During Taking test we have found that you hadn't ate something from last 2 - 3 hrs so
here's a tip \n\n";

cout<<" Health Tip 1 :";

cout<<" You should eat something in every 2 hours it is important for body\n\n";

sleep(1);

}

cout<<"\n
+++++
+++++";

if(checkdb1==3 && checkdb2<=1 && checkdb3==0)

{

    cout<<"\n\n\t\t\t\t\t\t\t Consult Doctor: For further Detailed Explanation!.";

    cout<<"\n\n\t\t\t\t\t\t\t Diabetes Test : Negative \n\n";

}

if(checkdb2==2 && checkdb3<=1)

{

    cout<<"\n\n\t\t\t\t\t\t\t Consult Doctor: For further Detailed Explanation!.";

    cout<<"\n\n\t\t\t\t\t\t\t Diabetes Test : Positive \n\n\t\t\t\t\t\t\t Diabetes Type : Pre
Diabetes(I) \n\n";

}

if(checkdb2<2 && checkdb3>1)

{

    cout<<"\n\n\t\t\t\t\t\t\t Consult Doctor: For further Detailed Explanation!.";

```

```
cout<<"\n\n\t\t\t\t\t\t\t Diabetes Test : Positive \n\t\t\t\t\t\t\t Diabetes Type : Pre
Diabetes(II)\n";
}

if(checkdb3==2 || checkdb3==3)
{
    cout<<"\n\n\t\t\t\t\t\t\t Consult Doctor: For further Detailed Explanation!.";
    cout<<"\n\n\t\t\t\t\t\t\t Diabetes Test : Positive \n\t\t\t\t\t\t\t Diabetes Type : Level(II)\n";
}

if(checkdb3==2 && checkdb2==2)
{
    cout<<"\n\n\t\t\t\t\t\t\t Consult Doctor: For further Detailed Explanation!.";
    cout<<"\n\n\t\t\t\t\t\t\t Diabetes Test : Positive \n\t\t\t\t\t\t\t Diabetes Type : Level(I)\n";
}

else if(checkdb2==1 && checkdb1==1 && checkdb2==1)
{
    cout<<"\n\n\t\t\t\t\t\t\t Meet Doctor Again due to some complications in test";
}

else
{
    cout<<"\n\n\t\t\t\t\t\t\t Consult Doctor for More Help";
}

cout<<"\n
+++++
+++++";
cout<<"\n\n\n\t\t\t\t\t\t\t Final Result :- ";
if(objp.glucose1<140.00)
{
```

```

        cout<<"Normal";
    }
    else if(objp.glucose1>=140.00 && objp.glucose1<=199.00)
    {
        cout<<"PRE-Diabetes";
    }
    else if(objp.glucose1>=200.00)
    {
        cout<<"Diabetes II";
    }
}
else
{
    cout<<"\n\n Test Report has not been made\n\n";
}
fout.close();
fin.close();
}

```

```

void diabetes::doctorlist()
{
    system("cls");
    int date,month,year;
    cout<<"\t\t\tDiabetes Health Care!\n\n\n";
    fin.open("DIABETESDATA.txt",ios::in);
}

```

```

fout.open("Temp.txt",ios::in);

fturndoc.open("Doctors1.txt",ios::app|ios::in);

while(fturndoc.read((char*)&docp,sizeof(docp)))

{

    fout.write((char*)&docp,sizeof(docp));

}

fout.close();

fturndoc.close();

fout.open("Temp.txt",ios::in);

fturndoc.open("Doctors1.txt",ios::app|ios::in);

int choice;

int tempid;

cout<<"\n\n Enter the paitent id : ";

cin>>tempid;

while(fin.read((char*)&mainobj,sizeof(mainobj)))

{

if(tempid==mainobj.id)

{

break;

}

}

if(tempid==mainobj.id)

{

    cout<<"\n\n Paitent Name : "<<mainobj.name;

    cout<<"\n\n";

```

```

int tt=0;

if(tt=1)

{

system("cls");

}

cout<<"\n\n\t\t\t\t\t\t\t\t\t\tDoctor's List\n\n";

cout<<"-----\n\n";

cout<<"\tid\t|\t\t\tDoctor Name\t\t| \t\t\tTimings\t\t\t\t|\t\t\tDays\t\t|\t\t\tFees\t\t|\n\n";

cout<<"\t1\t|\t\t\tDr.Suraj.C.S\t\t|\t\t\t10:00am-12:00pm\t\t|\t\t\tMon \t\t|\t\t\tRs 1000\t\t|\n\n";

cout<<"\t2\t|\t\t\tDr.Varuna.K.D\t\t|\t\t\t05:00pm-07:00pm\t\t|\t\t\tTue \t\t|\t\t\tRs 1500\t\t|\n\n";

cout<<"\t3\t|\t\t\tDr.Spoorthy.L\t\t|\t\t\t11:00am-01:00pm\t\t|\t\t\tWed \t\t|\t\t\tRs 1500\t\t|\n\n";

cout<<"\t4\t|\t\t\tDr.Shreyas.B.Y\t\t|\t\t\t11:00am-02:00pm\t\t|\t\t\tThurs\t\t|\t\t\tRs 2000\t\t|\n\n";

cout<<"\t5\t|\t\t\tDr.Sahana \t\t|\t\t\t05:00pm-08:00pm\t\t|\t\t\tFri \t\t|\t\t\tRs 3000\t\t|\n\n";

cout<<" Enter your Choice of Doctor to Book your Appointment\n\n";

cout<<"\n Your Choice : ";

cin>>choice;

docp.id=tempid;

docp.idofdoc=choice;

cout<<"\n\n Enter Date to Fix appointment(dd/mm/yyyy)\n\n";

cout<<" Your input : ";

cin>>date;

cin>>month;

cin>>year;

cout<<"\n\n Wait! Checking For Appointments ";

```

```

cout<<"\n\n ";

fout.read((char*)&docp,sizeof(docp));

{

if(docp.st.d==date && docp.st.m==month && docp.st.y==year)

{

    char check;

    cout<<"\n\n Sorry for inconvenience The date you selected is not available for
appointment ";

    cout<<"\n\n Press Y to try again \n ";

    cout<<"Your Choice: ";cin>>check;

    if(check=='y' || check=='Y')

    {

        tt=1;

        goto B;

    }

}

else

{

    docp.st.d=date;

    docp.st.m=month;

    docp.st.y=year;

    cout<<"\n ";

    sleep(3);

    cout<<"\n\n Thanks! Appointment Fixed on "<<date<<"/"<<month<<"/"<<year;

    fturndoc.write((char*)&docp,sizeof(docp));

}

```

```

    }
}

else
    cout<<"\n\n Appointment Not Fixed";
    cout<<"\n\n";
    fout.close();
    fturndoc.close();
    fin.close();
    remove("Temp.txt");
}

```

```
void diabetes::prereport()
{
    int tempid,c=0;

    system("cls");

    cout<<"\t\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";

    cout<<"\t\t\t\t\t\t\t ....SJS Enterprise....\n\n";

    cout<<"
```

```
        \n\n\n";

    fin.open("DIABETESDATA.txt",ios::in);

    fturndoc.open("Doctors1.txt",ios::in);

    cout<<" Enter The Id of paitent: ";

    cin>>tempid;

while(fin.read((char*)&mainobj,sizeof(mainobj)))

{

    if(tempid==mainobj.id)

    {

        break;

    }

}

while(fturndoc.read((char*)&docp,sizeof(docp)))

{

    if(docp.id==tempid)

        break;

}

if(tempid==mainobj.id && tempid==docp.id)

{

    cout<<"\n\n NAME: "<<mainobj.name;

        cout<<"\n\n Age: "<<mainobj.age;

        cout<<"\n\n Sex: "<<mainobj.sex;

        cout<<"\n\n Appointment date: "<<docp.st.d<<"/"<<docp.st.m<<"/"<<docp.st.y<<"\n";

        cout<<"\n\n Mobile number: "<<mainobj.phn;

        cout<<" \n\n Doctor Name: ";
```

```
    if(docp.idofdoc==1)
    {
        cout<<"Dr.Suraj.C.";
    }
    if(docp.idofdoc==2)
    {
        cout<<"Dr.Varun.K.D";
    }
    if(docp.idofdoc==3)
    {
        cout<<"Dr.Spoorthy.L";
    }
    if(docp.idofdoc==4)
    {
        cout<<"Dr.Shreyas.B.Y";
    }
    if(docp.idofdoc==5)
    {
        cout<<"Dr.Sahana";
    }
    cout<<"\n\n\n";
}
else
    cout<<"\n\n Invalid Id or Appointment has Not been Taken\n\n";
fin.close();
```

```
fturndoc.close();
}

void diabetes::aboutme()
{
    system("cls");

    cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t We
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";

    cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____
_____\n\n";

    cout<<"\t\tNAME:Sujith Sharma\n";

    cout<<"\t\tSECTION:1656\n";

    cout<<"\t\tAND THIS IS AWESOME\n";

    cout<<"\t\tSizeof class aminstration : "<<sizeof(adminstration);

    cout<<"\n\n\t\tSizeof class diabetes : "<<sizeof(diabetes);

    cout<<"\n\n\t\tSizeof class fianlreport : "<<sizeof(finalreport);

    cout<<"\n\n\t\tSizeof class login : "<<sizeof(Login);

    cout<<"\n\n\t\tSizeof class problems : "<<sizeof(problems);

    cout<<"\n\n\t\tSizeof class doctors : "<<sizeof(doctor);

    cout<<"\n\n\t\tSizeof class discuss : "<<sizeof(discuss);

    cout<<"\n\n-----
-----\n";

    exit(1);
```

```

}

void diabetes::deldata()

{

    int tempid,k=0;

    system("cls");

        fin.open("DIABETESDATA.txt",ios::in);

        fout.open("Temp.txt",ios::out);

        fturndoc.open("Doctor1.txt",ios::in);

        ftemp.open("Tempdoc.txt",ios::out);


        cout<<"\t\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\t\t\t\t\tWe
judge we understand!\n";

        cout<<"+++++
+++++
+++++\n\n\n";

        cout<<"\t\t\t\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____
_____\n\n\n";

        cout<<"\t\t\t\t\tHere's the Data of all paitents\n\n\n";



        cout<<"|\t ID\t |          NAME          | AGE   | SEX   | HEIGHT   | WEIGHT   |\n";

        while(fin.read((char*)&mainobj,sizeof(mainobj)))

        {

            cout<<"| "<<setw(9)<<id<<setw(10)<<"| "<<setw(15)<<name<<setw(20)<<"| "<<setw(5)<<age<<s
etw(5)<<"| "<<setw(5)<<sex<<setw(5)<<"| "<<setw(7)<<height<<setw(7)<<"| "<<setw(7)<<weight<<setw
(7)<<"\t|\n\n";

        }

}

```

```
fin.close();

fin.open("DIABETESDATA.txt",ios::in);

    cout<<"\n Enter the id no. of patient : ";

    cin>>tempid;


    while(fin.read((char*)&mainobj,sizeof(mainobj)))

    {

        if(tempid==mainobj.id)

        {

            k++;

        }

        else

        {

            fout.write((char*)&mainobj,sizeof(mainobj));

        }

    }

    fin.close();

    fout.close();

    fin.open("DIABETESDATA.txt",ios::out);

    fout.open("Temp.txt",ios::in);

    while(fout.read((char*)&mainobj,sizeof(mainobj)))

    {

        fin.write((char*)&mainobj,sizeof(mainobj));

    }

    cout<<"\n\n Deleted Record";
```

```

        cout<<"\n\n";

        fin.close();

        fout.close();

        cout<<"\n\n UPDATED RECORDS";

        cout<<"\n\n";

        fin.open("DIABETESDATA.txt",ios::in);

        cout<<"\t ID\t |      NAME      | AGE | SEX | HEIGHT | WEIGHT
\n";

        while(fin.read((char*)&mainobj,sizeof(mainobj)))
        {

        cout<<"|"<<setw(9)<<id<<setw(10)<<"|"<<setw(15)<<name<<setw(20)<<"|"<<setw(5)<<age<<setw(5)<
<"|"<<setw(5)<<sex<<setw(5)<<"|"<<setw(7)<<height<<setw(7)<<"|"<<setw(7)<<weight<<setw(7)<<"\t
\n\n";

        }

        fin.close();
}

```

```

void diabetes::patientlogin()
{

    int tempid,tempotp,co;

    long long int tempno;

    system("cls");

```



```

{
    if(tempid==mainobj.id && tempno==mainobj.phn)
    {
        break;
    }
}

if(tempid==mainobj.id && tempno==mainobj.phn)
{
    system("cls");

    cout<<"\t\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n\n";

    cout<<"\t\t\t\t\t\t\t ....SJS Enterprise....\n\n";

    cout<<"_____
_____
_____ \n\n\n";

    cout<<"\n\n NAME: "<<mainobj.name;

    cout<<"\n\n Age: "<<mainobj.age;

    cout<<"\n\n Sex: "<<mainobj.sex;

    cout<<"\n\n 1. Update Data \n\n 2. Change Doctor \n\n 3. Disease Level \n\n 4. Check Medicines \n\n
5. Buy\\Order Medicines \n\n 6. Register Complaints\n\n 7. See Messages//Complaint status\n\n 8.Exit";

    cout<<"\n Enter Choice : ";

    int lc;

    cin>>lc;

    switch(lc)

```



```
{  
case 1:  
pa.updatemine();  
break;  
    case 2:  
        pa.docchange();  
break;  
case 3:  
pa.diseaselevel();  
break;  
case 4:  
pa.medicare();  
break;  
    case 5:  
        pa.buy();  
        break;  
    case 6:  
        pa.complaints();  
        break;  
    case 7:  
        pa.seem();  
        break;  
    //case 8:  
    //bobj.totalbill();  
    //break;
```

```
        case 8:

            cout<<"Exiting...."      ;

            sleep(2);

            mainobj.twist();

            default :

                exit(0);

        }

    }

    fin.close();

}

else

{

    cout<<"\n\n    Error While Logging...\n";

    sleep(3);

    cout<<"\n\n Login Failed \n\n";

    fin.close();

}

}
```

```
void diabetes::admin()
{
    system("cls");

    cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t We judge we understand!\n";

    cout<<"+++++  
+++++  
+++++\n\n";

    cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

    cout<<"_____  
_____  
_____ \n\n";

    cout<<"\n\n";

    int ch;

    char check;

    BD:

    cout<<"\t\t\t\t\t WE ARE ALWAYS HERE TO HELP YOU \n\n\t\t\t\t\t CHOOSE THE  
OPTIONS FROM MENU\n\n 1: List All data(Paitents)\n\n 2: Search for Paitent\n\n 3: Delete  
Record(Paitents) \n\n 4: Update Records(Paitents)\n\n 5: Count Paitents\n\n 6: Admin Records\n\n 7:  
Admin Signup\n\n 8: Admin Duties\n\n 9: Logout";

    cout<<"\n\n YOUR CHOICE FROM LIST : ";

    cin>>ch;

    switch(ch)
    {

        case 1:

            display(10,20);

            cout<<"\n Do You Want To Continue(y/n)\n";
```

```
cout<<" YOUR CHOICE: ";

cin>>check;

if(check=='y' || check=='Y')

{

system("cls");

goto BD;

    }

    else

    {

        cout<<"\n\n\t\tThank You! Visit us Again\n";

        break;

    }

    case 2:

search();

cout<<"\n Do You Want To Continue(y/n)\n";

cout<<" YOUR CHOICE: ";

cin>>check;

if(check=='y' || check=='Y')

{

system("cls");

goto BD;

    }

    else

    {

        cout<<"\n\n\t\tThank You! Visit us Again\n";
```

```

        break;

    }

    case 3:

        deldata();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')

        {

            system("cls");

            goto BD;

        }

        else

        {

            cout<<"\n\n\t\t\tThank You! Visit us Again\n";

            break;

        }

    case 4:

        update();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')

        {

            system("cls");

```

```

goto BD;

    }

    else

    {

        cout<<"\n\n\t\tThank You! Visit us Again\n";

        break;

    }

    case 5:

admino.count();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')

        {

            system("cls");

            goto BD;

        }

        else

        {

            cout<<"\n\n\t\tThank You! Visit us Again\n";

            break;

        }

        case 6:

mainobj.adminre();

        cout<<"\n Do You Want To Continue(y/n)\n";

```

```

cout<<" YOUR CHOICE: ";

cin>>check;

if(check=='y' || check=='Y')
{
    system("cls");

    goto BD;

    }

    else

    {

        cout<<"\n\n\t\t\tThank You! Visit us Again\n";

        break;

    }

    case 7:

        admino.adminsi();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')

        {

            system("cls");

            goto BD;

            }

            else

            {

                cout<<"\n\n\t\t\tThank You! Visit us Again\n";

```

```

        break;
    }

    case 8:

        admino.duty();

        cout<<"\n Do You Want To Continue(y/n)\n";

        cout<<" YOUR CHOICE: ";

        cin>>check;

        if(check=='y' || check=='Y')
        {
            system("cls");
            goto BD;
        }

        else
        {

            cout<<"\n\n\t\t\tThank You! Visit us Again\n";

            break;
        }

    case 9:

        cout<<"\n\n Logging out..... \n\n";

        sleep(2);

        cout<<"\n\n Logged Out Successfully.....\n";


        mainobj.twist();

        default:

            cout<<"\n\n Terminated due to wrong key press\n";

```



```
}  
}
```

```
void administration::adminsi()
```

```
{
```

```
    int c=0;
```

```
    system("cls");
```

```
    fadmin.open("admin.txt",ios::app);
```

```
    cout<<"+++++  
+++++  
+++++\n\n";
```

```
        cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";
```

```
    cout<<"_____  
_____  
_____\n\n";
```

```
        cout<<"\n\n\t\t\t\t\t WE ARE ALWAYS HERE TO HELP YOU \n\n";
```

```
        cout<<" Enter Name : ";
```

```
        cin>>admino.name;
```

```
        cout<<"\n\n Enter the userid : ";
```

```
        cin>>admino.userid;
```

```
        cout<<"\n\n Enter the password : ";
```

```
        cin>>admino.password;
```

```
        cout<<"\n\n Enter the phone no.: ";
```

```
        cin>>admino.phna;
```

```

        cout<<"\n\n Enter The ID GENERATED : ";

        cin>>admino.stid;

        sleep(1);

        cout<<"\n\n Logging in in 3 seconds \n\n";

        sleep(1);

        cout<<"\n\n Logging in in 2 seconds \n\n";

        sleep(1);

        cout<<"\n\n Logging in in 1 seconds \n\n";

        sleep(1);

        fadmin.write((char*)&admino,sizeof(admino));

        fadmin.close();

        mainobj.admin();

    }

```

```

void adminstration::count()

{

    int c=0;

    system("cls");

    cout<<"+++++
+++++
+++++\n\n\n";

    cout<<"\t\t\t\t\t\t\t ....SJS Enterprise....\n\n";

    cout<<"_____
_____
_____
_____ \n\n\n";

```

```
cout<<"\n\n\t\t\t\t\t WE ARE ALWAYS HERE TO HELP YOU \n\n\n";

fadmin.open("admin.txt",ios::in);

fin.open("DIABETESDATA.txt",ios::in);

cout<<" Choose : \n\n 1-> Paitents \n\n 2-> Staff \n\n ";

int choice;

cout<<"\n Your Choice : ";

cin>>choice;

switch(choice)

{

case 1:

while(fin.read((char*)&mainobj,sizeof(mainobj)))

{

c++;

}

cout<<"\n\n The Total Count is: ";

cout<<c;

counter=c;

c=0;

        cout<<"\n\n\n";

break;

case 2:

while(fadmin.read((char*)&admino,sizeof(admino)))

{

c++;

}
```

```

        cout<<"\n\n The Total Count is: ";

        cout<<c;

        counter=c;

        cout<<"\n\n\n";

        c=0;

        break;

    }

}

```

```

void diabetes::setlock()

```

```

{

```

```

    int i,c=0;

```

```

    char a[20],p[13];

```

```

    system("cls");

```

```

    cout<<"+++++
+++++
+++++\n\n\n";

```

```

        cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

```

```

    cout<<"_____
_____
_____ \n\n\n";

```

```

        cout<<"\n\n\t\t\t\t\t WE ARE ALWAYS HERE TO HELP YOU \n\n\n";

```

```

        fadmin.open("admin.txt",ios::in);

```

```

        fout.open("admintmp.txt",ios::out);

```

```

fadmin.seekg(0,ios::beg);

fout.seekp(0,ios::beg);

    while(fadmin.read((char*)&admino,sizeof(admino)))

    {

        fout.write((char*)&admino,sizeof(admino));

    }

fout.close();

fadmin.close();

fout.open("admintmp.txt",ios::in);

while( fout.read((char*)&admino,sizeof(admino)))

{

    c++;

}

fout.close();

fadmin.open("admin.txt",ios::in);

if(c==0)

{

    cout<<"\n\n No id existed So please Signup to do so\n\n";

    sleep(3);

    admino.adminsi();

}

else

{

    cout<<"\n\n Enter the userid : ";

    cin>>a;

```

```

cout<<"\n\n Enter The Password : ";
for(i=0;i<12;i++)
    {
        p[i]=getch();
        if(p[i]==13)
            break;
        else if(p[i]==8)
        {
            cout<<"\b \b";
            i=i-2;
        }
        else
            putchar('*');
    }
    p[i]='\0';

while(fadmin.read((char*)&admino,sizeof(&admino)) && !fadmin.eof())
{
    if(strcmp(a,admino.userid)==0 && strcmp(p,admino.password)==0)
    {
        sleep(2);
        cout<<"\n\n Wait for sometime\n\n";
        break;
    }
}

fadmin.close();

```

```

if(strcmp(a,admino.userid)==0 && strcmp(p,admino.password)==0)
{
    cout<<"\n\n Login Successfull \n\n";
    sleep(1);
    cout<<" Redirecting \n\n";
    sleep(2);
    mainobj.admin();
}
else
{
    cout<<"\n\n Invalid UserId or Password \n\n";
    counter1=0;
}
}
}

```

```

void administration::duty()
{
    int choice;

    system("cls");

    cout<<"\t\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";
}

```

```
cout<<"\t\t\t\t\t\t\t ....SJS Enterprise....\n\n";
```

```
cout<<"_____  
_____  
_____\n\n\n";
```

```
cout<<"\n\n\n";
```

```
cout<<" 1 > Give Replies\n\n";
```

```
cout<<" 2 > Take Complains\n\n";
```

```
cout<<" 3 > Add Medicines\n\n";
```

```
cout<<" 4 > Logout\n\n";
```

```
cout<<" Choose option : \n ";
```

```
cin>>choice;
```

```
switch(choice)
```

```
{
```

```
case 1:
```

```
mainobj.reply();
```

```
break;
```

```
case 2:
```

```
admino.complains();
```

```
break;
```

```
case 3:
```

```
admino.medi();
```

```
break;
```

```
case 4:
```

```
exit(0);
```

```
cout<<" \n\nLogging Out ....";
```

```
sleep(2);
```



```

mainobj.twist();

}

}

void diabetes::reply()

{

    system("cls");

    cout<<"\t\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";

    cout<<"\t\t\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____
_____ \n\n\n";

    cout<<"\n\n\n";

    fin.open("query.txt",ios::in);

    fout.open("reply.txt",ios::app);

    while(fin.read((char*)&q,sizeof(q)))

    {

        cout<<"\n\n Query Id No --> "<<q.id;

        cout<<"\n\n Query --> "<<q.input;

        cout<<"\n\n Asked By --> "<<q.name;

    }

    int tempid,k=0;

```

```
fin.seekg(0,ios::beg);

cout<<"\n\n ";

cout<<" Enter The id Whom You want to give reply : ";

cin>>tempid;

cout<<"\n\n ";

while(fin.read((char*)&q,sizeof(q)))

{

    if(tempid==q.id)

    {

        break;

    }

    else

    k=1;

}

if(k==1)

cout<<"Invalid Id \n\n";

else if(tempid==q.id)

{

cout<<"Query Reply : ";

fflush(stdin);

gets(q.reply);

fout.write((char*)&q,sizeof(q));

}

fout.close();

fin.close();
```

```
void diabetes::queries()
{
    system("cls");

    fout.open("query.txt",ios::app);

    cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t We
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";

    cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____\n\n\n";

    cout<<"\n\n\n";

    cout<<"\n\n Enter The Name --> ";

        cin>>q.name;

        cout<<"\n\n Enter the Query --> ";

fflush(stdin);

    gets(q.input);

    cout<<"\n ";

    sleep(1);

    cout<<"\n\n Your Query id no. Generated --> ";

    srand(time(NULL));

    q.id=rand()%1200+9999;
```

```

        cout<<q.id;

        fout.write((char*)&q,sizeof(q));

        sleep(2);

        cout<<"\n\n Your Query Registered\n ";

        sleep(1);

        cout<<"\n\n Press Y to logout ";

        char ch;

        cout<<"\n\n Enter The Key : ";

        cin>>ch;

        if(ch=='y' || ch=='Y')

        {

            fout.close();

            sleep(2);

            mainobj.twist();

        }

        else

        {

            cout<<" Exit\n\n";

            mainobj.welcome();

            fout.close();

            exit(0);

        }

    }
}

```

```

void diabetes::showqu()

```

```
{
    system("cls");

    cout<<"\t\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";

    cout<<"\t\t\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____
_____\n\n";

    cout<<"\n\n";

    fin.open("query.txt",ios::in);

    fout.open("reply.txt",ios::in);

    while(fin.read((char*)&q,sizeof(q)))
    {

        cout<<" Query Id : "<<q.id;

        cout<<"\n\n QUERY ASKED BY : "<<q.name;

        cout<<"\n\n Query : "<<q.input;

        cout<<"\n\n";

    }

    cout<<"-----Replies-----
-----\n\n";

    while(fout.read((char*)&q,sizeof(q)))
    {

        cout<<" Query Id : "<<q.id;

        cout<<"\n\n Queries Solved : "<<q.reply;
```

```
        cout<<"\n\n";

    }

    sleep(2);

    fout.close();

    fin.close();

    cout<<"\n Press Y to Logout \n ";

    char ch;

    cout<<"\n\n Enter The Key : ";

    cin>>ch;

    if(ch=='y' || ch=='Y')

    {

        mainobj.twist();

    }

    else

        exit(0);

}

void adminstration::medi()

{

    system("cls");

    cout<<"\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\t\tWe judge we understand!\n";
```

```
        cout<<"++++++  
++++++  
++++++\n\n";
```

```
        cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";
```

```
cout<<"_____  
_____  
_____\n\n";
```

```
    int n,i;
```

```
    fin.open("Medicines.txt",ios::app);
```

```
    cout<<" Enter The Number of Medicines to Enter : ";
```

```
    cin>>n;cout<<"\n\n ";
```

```
    for(i=0;i<n;i++)
```

```
    {
```

```
        cout<<"\n\n Enter The Medicine Id : ";
```

```
        cin>>medid;cout<<"\n\n";
```

```
        cout<<" Enter The Medicine Name : ";
```

```
        fflush(stdin);
```

```
        gets(medicines);
```

```
        cout<<"\n\n Enter The Price : ";
```

```
        cin>>medprice;
```

```
        fin.write((char*)&admino,sizeof(admino));
```

```
    }
```

```
    fin.close();
```

```
}
```

```
void patient::medicare()
```

```
{
    system("cls");

    cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\t We
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";

    cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

    cout<<"_____
_____
_____\n\n";

    fout.open("Medicines.txt",ios::in);

    cout<<" Here's the medicines list \n\n ";

    cout<<setw(10)<<"Medicine ID"<<setw(10)<<" | "<<setw(15)<<"MEDICINE
NAMES"<<setw(15)<<" | "<<setw(10)<<"PRICE"<<" | ";

    cout<<"\n\n_____
_____
_____\n\n";

    while(fout.read((char*)&admino,sizeof(admino)))
    {

        cout<<" | "<<setw(9)<<admino.medid<<setw(10)<<" | "<<setw(15)<<admino.medicines<<setw(15)<<" | "<
<setw(10)<<admino.medprice<<" |\n\n";

        }

    fout.close();

}

void patient ::buy()

{

    system("cls");
```



```
int temp,localid,qty,i,tempid;

float sum=0;

char ch;

cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

cout<<"+++++
+++++
+++++\n\n";

cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____
_____\n\n\n";

fcross.open("DIABETESDATA.txt",ios::in);

fout.open("Medicines.txt",ios::in);

fin.open("Medbuy.txt",ios::out);

ftemp.open("empty.txt",ios::in);

cout<<"\n\n Enter your id : ";

cin>>tempid;

while(fcross.read((char*)&mainobj,sizeof(mainobj)))

{

    if(tempid==mainobj.id)

        break;

}

while(ftemp.read((char*)&admino,sizeof(admino)))

{

    fin.write((char*)&admino,sizeof(admino));

}
```

```

fout.close();

ftemp.close();

fin.close();

fout.open("Medicines.txt",ios::in);

cout<<" Here's the medicines list \n\n ";

        cout<<setw(10)<<"Medicine ID"<<setw(10)<<"|"<<setw(15)<<"MEDICINE
NAMES"<<setw(15)<<"|"<<setw(10)<<"PRICE"<<"|";

        cout<<"\n\n"


---




---


        \n\n";

while(fout.read((char*)&admino,sizeof(admino)))

{

cout<<"|"<<setw(9)<<admino.medid<<setw(10)<<"|"<<setw(15)<<admino.medicines<<setw(15)<<"|"<
<setw(10)<<admino.medprice<<"|\n\n";

        }

fout.close();

fout.open("Medicines.txt",ios::in);

T:

        cout<<"\n\n Enter the id of medicine you want to Buy?\n\n ";

cin>>temp;

cout<<"\n\n Enter the quantity of medicine bought?\n\n ";

cin>>qty;

while(fout.read((char*)&admino,sizeof(admino)))

{

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

{

```

```

if(temp==admino.medid)
{
sum=sum+admino.medprice;
}
}
}

fout.seekg(0,ios::beg);

fout.close();

fout.open("Medicines.txt",ios::in);
while(fout.read((char*)&admino,sizeof(admino)))
{
if(temp==admino.medid)
{
fin.open("Medbuy.txt",ios::app);

fin.write((char*)&admino,sizeof(admino));

fin.close();

}

}

fout.close();

fout.open("Medicines.txt",ios::in);

cout<<"\n\n\t\t\t\t\tFOR MORE PRESS Y or FOR BILL PRESS ANY OTHER KEY\n\n ";

cout<<"Your Choice : ";

cin>>ch;

if(ch=='y' || ch=='Y')
{

```

```
goto T;

}

else

{

system("cls");

int billid;

srand(time(NULL));

billid==rand()%1000000+2000000;

fin.open("Medbuy.txt",ios::in);

fsum.open("Bill.txt",ios::app);

cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t We judge we understand!\n";

        cout<<"++++++  
++++++  
++++++\n\n";

        cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____  
_____  
_____ \n\n";

    cout<<"\n\n ";

    cout<<"\t\t\t\t\t Bill id : "<<billid;

    cout<<setw(20)<<"Medicine ID"<<setw(20)<<"|"<<setw(25)<<"MEDICINE NAMES"<<setw(25)<<"|"<<setw(20)<<"PRICE"<<"|";

    cout<<"_____  
_____  
_____ \n\n";

while(fin.read((char*)&admino,sizeof(admino)))

{
```

```
cout<<"  
_____  
_____\n\n";  
}
```

```
cout<<"\n_____  
_____  
_____\n\n";
```

}

```
system("cls");
```



```

        cin>>tempid;

        while(fout.read((char*)&mainobj,sizeof(mainobj)))
        {
if(mainobj.id==tempid)
        {
            cout<<"\n\n Enter the new name : ";

            fflush(stdin);

            gets(mainobj.name);

            cout<<"\n\n Enter the new age : ";

            cin>>mainobj.age;

            cout<<"\n\n Enter the new height : ";

            cin>>mainobj.height;

            cout<<"\n\n Enter the new weight : ";

            cin>>mainobj.weight;

            fin.write((char*)&mainobj,sizeof(mainobj));

        }

else if(mainobj.id!=tempid)

        fin.write((char*)&mainobj,sizeof(mainobj));

        }

        fout.close();

        fin.close();

        fin.open("update.txt",ios::in);

        fout.open("DIABETESDATA.txt",ios::out);

        fout.seekg(0,ios::beg);

        while(fin.read((char*)&mainobj,sizeof(mainobj)))

```

```
{
    fout.write((char*)&mainobj,sizeof(mainobj));
}
fin.close();
fout.close();
cout<<"\n\n Updating...";
sleep(2);
cout<<"\n\n UPDATED...";
sleep(1);
}

void patient::updatemine()
{
    system("cls");
    cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t We
judge we understand!\n";
    cout<<"+++++
+++++
+++++\n\n";
    cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";
    cout<<"_____
_____ \n\n\n";
    cout<<"\n\n ";
    ftemp.open("send.txt",ios::app);
    cout<<"\n\n Write the msg to admin to update and what to update and give reason for it : ";
    fflush(stdin);
```



```
sleep(2);

cout<<"\n\n Mail sent !!";

}

void adminstration::complains()

{

    system("cls");

    cout<<"\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n";

    cout<<"\t\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____
_____\n\n";

    cout<<"\n\n ";

    fout.open("recomp.txt",ios::app);

    fin.open("comp.txt",ios::in);

    cout<<"\n\n Complains : ";

    while(fin.read((char*)&pa,sizeof(pa)))

    {

        cout<<" "<<pa.comp;

        cout<<"\n\n Write a Reply ";

            cout<<"\n\n "<<admino.re;

        }

    fflush(stdin);

    gets(admino.re);
```

```
fout.write((char*)&pa,sizeof(pa));

fin.close();

fout.close();

}

void patient::seem()

{

    system("cls");


        cout<<"\t\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\tWe
judge we understand!\n";


        cout<<"+++++
+++++
+++++\n\n";


        cout<<"\t\t\t\t\t\t ....SJS Enterprise....\n\n";


cout<<"_____
_____
_____\n\n";


    cout<<"\n\n ";


        fin.open("recomp.txt",ios::in);

while(fin.read((char*)&pa,sizeof(pa)))

{

    cout<<" "<<admino.re;

}

    cout<<"\n\n Only latest Replies are Available \n";

    fin.close();

}

void diabetes::adminre()

{
```



```
{
    system("cls");

    cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\n\t\t\t\t\t We
judge we understand!\n";

    cout<<"+++++
+++++
+++++\n\n\n";

    cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

cout<<"_____
_____
_____\n\n\n";

    cout<<"\n\n ";

    fin.open("DIABETESDATA.txt",ios::in);

    fout.open("problems.txt",ios::in);

    cout<<"Enter Your Id : ";

    int tempid;

    cin>>tempid;

    int check=0;

    while(fin.read((char*)&mainobj,sizeof(mainobj)))

    {

        if(tempid==mainobj.id)

            break;

        }

        while(fout.read((char*)&objp,sizeof(objp)))

        {

            if(tempid==objp.id)

                break;
```

```

    }

    if(tempid==mainobj.id)
    {
        cout<<"\n\n Sugar Level : "<<objp.sugarlevel;

        if(objp.sugarlevel>=9.0)
        {
            check=1;

            cout<<" High Sugar Level-II\n";
        }

        else if(objp.sugarlevel<9.0 && objp.sugarlevel>7.5)
        {
            check=2;

            cout<<" High Sugar Level\n";
        }

        else if(objp.sugarlevel>4.0 && objp.sugarlevel<7.4)
        {
            check=3;

            cout<<" Normal Sugar Level\n";
        }

        else
            cout<<" Low Sugar Level\n";

        }

        if(check==1)

            cout<<"\n\n\n\t\t\t\t\t Diabetes Level-2 \n\n";

        else if(check==2)

```

```
cout<<"\n\n";
```



```
cout<<setw(5)<<"ID"<<setw(5)<<"|"<<setw(20)<<"Name"<<setw(20)<<"|"<<setw(5)<<"Price/pa  
ckage"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"1"<<setw(5)<<"|"<<setw(20)<<"NOVOLOG"<<setw(20)<<"|"<<setw(5)<<"Rs  
1200"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"2"<<setw(5)<<"|"<<setw(20)<<"NOVOLIN"<<setw(20)<<"|"<<setw(5)<<"Rs  
1100"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"3"<<setw(5)<<"|"<<setw(20)<<"HUMULIN"<<setw(20)<<"|"<<setw(5)<<"Rs  
1500"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"4"<<setw(5)<<"|"<<setw(20)<<"HUMALOG"<<setw(20)<<"|"<<setw(5)<<"Rs  
1400"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"5"<<setw(5)<<"|"<<setw(20)<<"APIDRA"<<setw(20)<<"|"<<setw(5)<<"Rs  
2000"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"6"<<setw(5)<<"|"<<setw(20)<<"PRECOSE"<<setw(20)<<"|"<<setw(5)<<"Rs  
2500"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"7"<<setw(5)<<"|"<<setw(20)<<"MIGLITOL"<<setw(20)<<"|"<<setw(5)<<"Rs  
3500"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"8"<<setw(5)<<"|"<<setw(20)<<"KAZANO"<<setw(20)<<"|"<<setw(5)<<"Rs  
4500"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"9"<<setw(5)<<"|"<<setw(20)<<"GLUCOVANCE"<<setw(20)<<"|"<<setw(5)<<"  
Rs 5500"<<setw(5)<<"|\n\n";
```

```
cout<<setw(5)<<"10"<<setw(5)<<"|"<<setw(20)<<"ACTOPLUS"<<setw(20)<<"|"<<setw(5)<<"Rs  
6000"<<setw(5)<<"|\n\n";
```

```
cout<<"\n\n Enter the id you want to buy : ";
```

```
cin>>mid;
```

```
if(mid==1)
```

```
{
```

```
    sum=sum+1200;
```

```
}
```

```
if(mid==2)
```

```
{
```

```
        sum=sum+1100;
    }
    if(mid==3)
{
        sum=sum+1500;
    }
    if(mid==4)
{
        sum=sum+1400;
    }
    if(mid==5)
{
        sum=sum+2000;
    }
    if(mid==6)
{
        sum=sum+2500;
    }
    if(mid==7)
{
        sum=sum+3500;
    }
    if(mid==8)
{
        sum=sum+4500;
```

```

    }

    if(mid==9)

    {

        sum=sum+5500;

    }

    if(mid==10)

    {

        sum=sum+6000;

    }

    cout<<"\n\n You can buy only 2 medicines at a time as per Medical Department Rules: ";

    cout<<"\n\n Do you want more?(Y/N) ";

    cin>>ch1;

    if(ch1=='Y' || ch1=='y')

    {

        j++;

        mod=mid;

        goto B;

    }

    else

    {

        system("cls");

        cout<<"\t\t\t\t\t WELCOME TO THE DIABETES HEALTH CARE\t\t\n\t\t\t\t\t\t\t We judge we understand!\n";

        cout<<"+++++++\n+++++++\n+++++++\n\n\n";

        cout<<"\t\t\t\t\t ....SJS Enterprise....\n\n";

```

```

cout<<"_____
_____\\n\\n\\n";

cout<<setw(5)<<"ID"<<setw(5)<<"|"<<setw(20)<<"Name"<<setw(20)<<"|"<<setw(5)<<"Price/package"<
<setw(5)<<"|\\n\\n";


    if(mid==1 || mod==1)

    {

        cout<<setw(5)<<"1"<<setw(5)<<"|"<<setw(20)<<"NOVOLOG"<<setw(20)<<"|"<<setw(5)<<"Rs
1200"<<setw(5)<<"|\\n\\n";

    }

    if(mid==2 || mod==2)

    {

        cout<<setw(5)<<"2"<<setw(5)<<"|"<<setw(20)<<"NOVOLIN"<<setw(20)<<"|"<<setw(5)<<"Rs
1100"<<setw(5)<<"|\\n\\n";

    }

    if(mid==3 || mod==3)

    {

        cout<<setw(5)<<"3"<<setw(5)<<"|"<<setw(20)<<"HUMULIN"<<setw(20)<<"|"<<setw(5)<<"Rs
1500"<<setw(5)<<"|\\n\\n";

    }

    if(mid==4 || mod==4)

    {

        cout<<setw(5)<<"4"<<setw(5)<<"|"<<setw(20)<<"HUMALOG"<<setw(20)<<"|"<<setw(5)<<"Rs
1400"<<setw(5)<<"|\\n\\n";

    }

    if(mid==5 || mod==5)

```

```

{

    cout<<setw(5)<<"5"<<setw(5)<<"|"<<setw(20)<<"APIDRA"<<setw(20)<<"|"<<setw(5)<<"Rs
2000"<<setw(5)<<"|\n\n";

}

    if(mid==6 || mod==6)

{

    cout<<setw(5)<<"1"<<setw(5)<<"|"<<setw(20)<<"PRECOSE"<<setw(20)<<"|"<<setw(5)<<"Rs
1200"<<setw(5)<<"|\n\n";

}

    if(mid==7 || mod==7)

{

    cout<<setw(5)<<"2"<<setw(5)<<"|"<<setw(20)<<"MIGLITOL"<<setw(20)<<"|"<<setw(5)<<"Rs
1100"<<setw(5)<<"|\n\n";

}

    if(mid==8 || mod==8)

{

    cout<<setw(5)<<"3"<<setw(5)<<"|"<<setw(20)<<"KAZANO"<<setw(20)<<"|"<<setw(5)<<"Rs
1500"<<setw(5)<<"|\n\n";

}

    if(mid==9 || mod==9)

{

    cout<<setw(5)<<"4"<<setw(5)<<"|"<<setw(20)<<"GLUCOVANCE"<<setw(20)<<"|"<<setw(5)<<"Rs
1400"<<setw(5)<<"|\n\n";

}

    if(mid==10 || mod==10)

{

    cout<<setw(5)<<"5"<<setw(5)<<"|"<<setw(20)<<"ACTOPLUS"<<setw(20)<<"|"<<setw(5)<<"Rs
2000"<<setw(5)<<"|\n\n";

```

```

    }

    cout<<"\t\t\t\t\t\t\t Total Bill : "<<sum;

    sleep(5);

    cout<<"\t\t\t\t\t\t\t Thanks!for taking Quick test and buying medicines";

    sleep(3);

    mainobj.twist();

}

}

```