#include<fstream.h>

#include<time.h>

#include<iostream.h>

#include<conio.h>

#include<stdio.h>

#include<dos.h>

#include<string.h>

#include<ctype.h>

#include<stdlib.h>

int xx=0,u,v,qt=0,j[50],r=0,result[50],result2[50],jj=0,gg=0,ee=0,ff=0;

class diseases

{

private:

char name[50];

float values[50];

int age,i;

int height;

int weight;

char sex;

char s[20];

public:

int pat\_id;

void welcome\_screen();

void getvalue();

void symptoms();

void tests();

int analyse\_symptoms();

void symptoms2();

void showreport();

void showreport2();

void showreport3();

int analyse2();

diseases()

{

unsigned int seedpat\_id;

time\_t x;

seedpat\_id=(unsigned)time(&x);

srand(seedpat\_id);

pat\_id=(rand()%100)+11;

}

char \*retrname()

{

return name;

}

};

class diseases2

{

char name[50];

int age,g;

int height;

int weight;

char sex;

int values2[50];

char sym[50];

char t[50];

public:

int pat\_id2;

void getsymptoms();

void getvalue2();

void tests2();

void showr();

void showr2();

void showr3();

diseases2()

{

unsigned int seedpat\_id;

time\_t x;

seedpat\_id=(unsigned)time(&x);

srand(seedpat\_id);

pat\_id2=(rand()%100)+11;

}

char \*retrname()

{

return name;

}

};

void diseases::welcome\_screen()

{

clrscr();

gotoxy(20,7);

textcolor(YELLOW);

cputs("\*\*\*\*\*\*\*\* W E L C O M E \*\*\*\*\*\*\*\* " );

gotoxy(16,9);

cputs(" D E W A N P U B L I C S C H O O L " );

gotoxy(9,12);

cputs(" M E D I C A L D I A G N O S I S S O F T W A R E ");

textcolor(GREEN+BLINK);

// for(int x=50;x>=22;x--)

{

gotoxy(38,16);

cputs("D O N E B Y : ");

gotoxy(38,18);

cputs("U M E S H");

gotoxy(43,18);

}

for(int i=2;i>=0;i--)

{

gotoxy(56,21);

cputs("LOADING ");

cout<<i;

textcolor(GREEN+BLINK);

cputs(" ...");

delay(1000);

}

}

void diseases::getvalue()

{

clrscr();

textcolor(GREEN);

gotoxy(20,2);

cputs(" P E R S O N A L I N F O R M A T I O N");

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,3);

cputs("~");

}

textcolor(WHITE);

gotoxy(25,10);

cputs("N A M E :");

gotoxy(25,12);

cputs("A G E :");

gotoxy(25,14);

cputs("W E I G H T :");

gotoxy(25,16);

cputs("H E I G H T :");

gotoxy(25,18);

cputs("S E X (M/F) :");

textcolor(YELLOW);

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

gotoxy(42,10);

gets(name);

gotoxy(42,12);

cin>>age;

gotoxy(42,14);

cin>>weight;

gotoxy(42,16);

cin>>height;

gotoxy(42,18);

cin>>sex;

getch();

}

void diseases::symptoms()

{

clrscr();

i=0;

gotoxy(23,3);

textcolor(GREEN);

cputs( " \*\*\* MEDICAL DIAGONOSIS FORM \*\*\* ");

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

for( yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

gotoxy( 3,6);

cputs("APPETITE (H(HIGH),/N(NORMAL):") ;

gotoxy(64,6);

cin>>s[i];

s[i]=toupper(s[i]);

++i;

gotoxy(3,8);

cputs("FREQUENCY OF THIRST (H(HIGH),/N(NORMAL):");

gotoxy(64,8);

cin>>s[i];

s[i]=toupper(s[i]);

++i;

gotoxy(3,10);

cputs("FREQUENCY OF URINATION H(HIGH),/N(NORMAL):");

gotoxy(64,10);

cin>>s[i];

s[i]=toupper(s[i]);

++i;

gotoxy(3,12);

cputs("VISION (I(IMPAIRMENT),/N(NORMAL):");

gotoxy(64,12);

cin>>s[i];

s[i]=toupper(s[i]);

++i;

gotoxy(3,14);

cputs("FAMILY HISTORY OF DIABETES (P(PASSIVE)/A(ACTIVE):");

gotoxy(64,14);

cin>>s[i];

s[i]=toupper(s[i]);

getch();

}

void diseases::tests()

{

u=0;

unsigned int seedpat\_id,seedpat,seedpatid,seedid;

time\_t x,y,z,xx;

seedpat\_id=(unsigned)time(&x);

srand(seedpat\_id);

values[u]=(rand()%4)+1;

u++;

seedpat=(unsigned)time(&y);

srand(seedpat);

values[u]=(rand()%144)+90;

u++;

seedpatid=(unsigned)time(&z);

srand(seedpatid);

values[u]=(rand()%215)+80;

u++;

seedid=(unsigned)time(&xx);

srand(seedid);

values[u]=(rand()%220)+60;

}

void diseases::showreport()

{

clrscr();

gotoxy(23,3);

textcolor(GREEN);

cputs( " \*\*\* MEDICAL REPORT OF PAITIENT \*\*\* ");

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(25,7);

cputs("N A M E :");

cout<<'\t'<<'\t';

puts(name);

gotoxy(25,8);

cputs("A G E :");

cout<<'\t'<<'\t'<<'\t';

cout<<age;

gotoxy(25,9);

cputs("W E I G H T :");

cout<<'\t'<<'\t';

cout<<weight;

gotoxy(25,10);

cputs("H E I G H T :");

cout<<'\t'<<'\t';

cout<<height;

gotoxy(25,11);

cputs("S E X (M/F) :");

cout<<'\t'<<'\t';

cout<<sex;

}

void diseases::showreport2()

{

int a=0;

gotoxy( 3,12);

cputs("APPETITE (H(HIGH),/N(NORMAL) ::") ;

if(s[a]=='H')

{

gotoxy(54,12);

cputs("High");

}

if(s[a]=='N')

{

gotoxy(54,12);

cputs("Normal");

}

a++;

gotoxy(3,13);

cputs("FREQUENCY OF THIRST (H(HIGH),/N(NORMAL):");

if(s[a]=='H')

{

gotoxy(54,13);

cputs("High");

}

if(s[a]=='N')

{

gotoxy(54,13);

cputs("Normal");

}

a++;

gotoxy(3,14);

cputs("FREQUENCY OF URINATION(H(HIGH),/N(NORMAL):");

if(s[a]=='H')

{

gotoxy(54,14);

cputs("High");

}

if(s[a]=='N')

{

gotoxy(54,14);

cputs("Normal");

}

a++;

gotoxy(3,15);

cputs("VISION (I(IMPAIRMENT),/N(NORMAL)");

if(s[a]=='I')

{

gotoxy(54,15);

cputs("Impairment");

}

if(s[a]=='N')

{

gotoxy(54,15);

cputs("Normal");

}

a++;

gotoxy(3,16);

cputs("FAMILY HISTORY OF DIABETES(P(PASSIVE)/A(ACTIVE)");

if(s[a]=='P')

{

gotoxy(54,16);

cputs("Passive");

}

if(s[a]=='A')

{

gotoxy(54,16);

cputs("Active");

}

a++;

int t=0;

gotoxy(3,17);

cputs("KETONUREA"); //<2 n,2-3 m,>3 h m mmol/l

gotoxy(54,17);

cout<<values[t];

cputs(" mmol/l");

if(values[t]<2)

{

gotoxy(65,17);

cputs("NORMAL");

}

else if(values[t]>=2 && values[t]<3)

{

gotoxy(65,17);

cputs("MODERATELY HIGH");

}

else

{

gotoxy(65,17);

cputs("HIGH");

}

t++;

gotoxy(3,18);

cputs("FASTING BLOOD SUGAR"); //<100 n,100< <126 prediabetes,>126 diabetes mg/dl

gotoxy(54,18);

cout<<values[t];

cputs(" mg/dl");

if(values[t]<100)

{

gotoxy(65,18);

cputs("NORMAL");

}

else if(values[t]>=100 && values[t]<126)

{

gotoxy(65,18);

cputs("MODERATELY HIGH");

}

else

{

gotoxy(65,18);

cputs("HIGH");

}

t++;

gotoxy(3,19);

cputs("R B S (H(HIGH),/N(NORMAL)"); //79-160 n,160-200, pre,>200 diab mg/dl

gotoxy(54,19);

cout<<values[t];

cputs(" mg/dl");

if(values[t]<160)

{

gotoxy(65,19);

cputs("NORMAL");

}

else if(values[t]>=160 && values[t]<200)

{

gotoxy(65,19);

cputs("MODERATELY HIGH");

}

else

{

gotoxy(65,19);

cputs("HIGH");

}

t++;

gotoxy(3,20);

cputs("OGTT(D/N)"); // 60-100 n,140-200 pre,>200 dia mg/dl

gotoxy(54,20);

cout<<values[t];

cputs(" mg/dl");

if(values[t]<100)

{

gotoxy(65,20);

cputs("NORMAL");

}

else if(values[t]>=100 && values[t]<200)

{

gotoxy(65,20);

cputs("MODERATELY HIGH");

}

else

{

gotoxy(65,20);

cputs("HIGH");

}

t++;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

}

void diseases::showreport3()

{

int q=0;gg=0,ee=0,ff=0,jj=0;

for(int d=0;d<i;d++)

{

s[d]=toupper(s[d]);

if(s[d]=='H'||s[d]=='P'||s[d]=='I')

{

ff++;

}

}

if(values[q]>=2 && values[q]<3)

{

jj++;

}

else if(values[q]>=3)

{

gg++;

}

else

{

ee++;

}

q++;

if(values[q]>=100 && values[q]<126)

{

jj++;

}

else if(values[q]>=126)

{

gg++;

}

else

{

ee++;

}

q++;

if(values[q]>=160 && values[q]<200)

{

jj++;

}

else if(values[q]>=200)

{

gg++;

}

else

{

ee++;

}

q++;

if(values[q]>=100 && values[q]<200)

{

jj++;

}

else if(values[q]>=200)

{

gg++;

}

else

{

ee++;

}

if(gg>=2)

{

gotoxy(3,5);

cputs("RESULT::");

textcolor(GREEN);

cputs(" The person is diabitic!!");

}

else if(gg<2 && jj>=2)

{

gotoxy(3,5);

cputs("RESULT::");

textcolor(GREEN);

cputs(" The person is prediabitic!!");

}

else if(jj<2 && ff>=3)

{

gotoxy(3,5);

cputs("RESULT::");

textcolor(GREEN);

cputs(" The person is prediabitic!!");

}

else

{

gotoxy(3,5);

cputs("RESULT::");

textcolor(GREEN);

cout<<" The person is not diabitic!!";

}

}

void diseases2::getvalue2()

{

clrscr();

textcolor(GREEN);

gotoxy(20,3);

cputs(" P E R S O N A L I N F O R M A T I O N");

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(25,10);

cputs("N A M E :");

gotoxy(25,12);

cputs("A G E :");

gotoxy(25,14);

cputs("W E I G H T :");

gotoxy(25,16);

cputs("H E I G H T :");

gotoxy(25,18);

cputs("S E X (M/F) :");

for( yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

gotoxy(42,10);

gets(name);

gotoxy(42,12);

cin>>age;

gotoxy(42,14);

cin>>weight;

gotoxy(42,16);

cin>>height;

gotoxy(42,18);

cin>>sex;

getch();

}

void diseases2::getsymptoms()//headache,vomiting,diarrhea,high fever,pani in

{ //muscles

clrscr();

g=0;

gotoxy(23,3);

textcolor(WHITE);

cputs( " \*\*\* MEDICAL DIAGONOSIS FORM \*\*\* ");

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

gotoxy( 3,6);

cputs("HEADACHE (Y(YES),/N(NO):") ;

gotoxy(64,6);

cin>>t[g];

t[g]=toupper(t[g]);

++g;

gotoxy(3,8);

cputs("VOMITING (Y(YES),/N(NO):");

gotoxy(64,8);

cin>>t[g];

t[g]=toupper(t[g]);

++g;

gotoxy(3,10);

cputs("DIARRHEA Y(YES),/N(NO):");

gotoxy(64,10);

cin>>t[g];

t[g]=toupper(t[g]);

++g;

gotoxy(3,12);

cputs("HIGH FEVER (Y(YES),/N(NO):");

gotoxy(64,12);

cin>>t[g];

t[g]=toupper(t[g]);

++g; //tests:thick and thin blood smears,

gotoxy(3,14);

cputs("PAIN IN MUSCLES (Y(YES),/N(NO):");

gotoxy(64,14);

cin>>t[g];

t[g]=toupper(t[g]); //rapid diagnostic test,molecular tests

}

void diseases2::tests2()

{

v=0;

int o=0;

unsigned int seedpat\_id,seedpat,seedpatid,seedid;

time\_t x,y,z;

seedpat\_id=(unsigned)time(&x);

srand(seedpat\_id);

values2[o]=(rand()%10)+1;

if(values2[o]<=5)

{

sym[v]='N';

}

else

{

sym[v]='Y';

}

o++;

v++;

seedpat=(unsigned)time(&y);

srand(seedpat);

values2[v]=(rand()%15)+5;

if(values2[o]<=10)

{

sym[v]='N';

}

else

{

sym[v]='Y';

}

o++;

v++;

seedpatid=(unsigned)time(&z);

srand(seedpatid);

values2[v]=(rand()%20)+10;

if(values2[o]<=15)

{

sym[v]='N';

}

else

{

sym[v]='Y';

}

}

void diseases2::showr()

{

clrscr();

gotoxy(23,3);

textcolor(YELLOW);

cputs( " \*\*\* MEDICAL REPORT OF PAITIENT \*\*\* ");

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

textcolor(WHITE);

gotoxy(25,7);

cputs("N A M E :");

cout<<'\t'<<'\t';

puts(name);

gotoxy(25,8);

cputs("A G E :");

cout<<'\t'<<'\t'<<'\t';

cout<<age;

gotoxy(25,9);

cputs("W E I G H T :");

cout<<'\t'<<'\t';

cout<<weight;

gotoxy(25,10);

cputs("H E I G H T :");

cout<<'\t'<<'\t';

cout<<height;

gotoxy(25,11);

cputs("S E X (M/F) :");

cout<<'\t'<<'\t';

cout<<sex;

}

void diseases2::showr2()

{

int a=0;

gotoxy( 3,12);

cputs("HEADACHE (Y(YES),/N(NO) ::") ;

if(t[a]=='Y')

{

gotoxy(65,12);

cputs("Yes");

}

if(t[a]=='N')

{

gotoxy(65,12);

cputs("No");

}

a++;

gotoxy(3,13);

cputs("VOMITING (Y(YES),/N(NO):");

if(t[a]=='Y')

{

gotoxy(65,13);

cputs("Yes");

}

if(t[a]=='N')

{

gotoxy(65,13);

cputs("No");

}

a++;

gotoxy(3,14);

cputs("DIARRHEA (Y(YES),/N(NO):");

if(t[a]=='Y')

{

gotoxy(65,14);

cputs("Yes");

}

if(t[a]=='N')

{

gotoxy(65,14);

cputs("No");

}

a++;

gotoxy(3,15);

cputs("HIGH FEVER (Y(YES),/N(NO)");

if(t[a]=='Y')

{

gotoxy(65,15);

cputs("Yes");

}

if(t[a]=='N')

{

gotoxy(65,15);

cputs("No");

}

a++;

gotoxy(3,16);

cputs("PAIN IN MUSCLES (Y(YES)/N(NO)");

if(t[a]=='Y')

{

gotoxy(65,16);

cputs("Yes");

}

if(t[a]=='N')

{

gotoxy(65,16);

cputs("No");

}

a++;

int t=0;

gotoxy(3,17);

cputs("THICK AND THIN BLOOD SMEARS"); //<2 n,2-3 m,>3 h m mmol/l

gotoxy(65,17);

if(sym[t]=='N')

{

gotoxy(65,17);

cputs("NEGATIVE");

}

else if(sym[t]=='Y')

{

gotoxy(65,17);

cputs("POSITUVE");

}

t++;

gotoxy(3,18);

cputs("RAPID DIAGNOSTIC TEST");

gotoxy(54,18);

if(sym[t]=='N')

{

gotoxy(65,18);

cputs("NEGATIVE");

}

else if(sym[t]=='Y')

{

gotoxy(65,18);

cputs("POSITIVE");

}

t++;

gotoxy(3,19);

cputs("MOLECULAR TESTS");

gotoxy(54,19);

if(sym[t]=='N')

{

gotoxy(65,19);

cputs("NEGATIVE");

}

else if(sym[t]=='Y')

{

gotoxy(65,19);

cputs("POSITIVE");

}

t++;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

}

void diseases2::showr3()

{

ff=0,gg=0;

for(int d=0;d<g;d++)

{

t[d]=toupper(t[d]);

if(t[d]=='Y')

{

ff++;

}

}

for(d=0;d<5;d++)

{

if(sym[d]=='Y')

ff++;

else

gg++;

}

if(ff>=3)

{

gotoxy(3,5);

cputs("RESULT::");

textcolor(GREEN);

cputs(" The person is suffering from malaria!!");

}

else if(ff>=1 && ff<=2)

{

gotoxy(3,5);

cputs("RESULT::");

textcolor(GREEN);

cputs(" The person may be suffering from malaria!!");

}

else if(gg>4)

{

gotoxy(3,5);

cputs("RESULT::");

textcolor(GREEN);

cputs(" The person is not suffering from malaria!!");

}

}

void add()

{

ofstream out("Project.dat",ios::binary|ios::app);

diseases d;

d.getvalue();

d.symptoms();

d.tests();

out.write((char \*)&d,sizeof(d));

out.close();

clrscr();

ofstream txt("count.dat",ios::binary|ios::app);

j[r]=0;

j[r]++;

txt<<j[r];

txt.close();

r++;

int i,val;

unsigned int seedval;

time\_t t;

seedval=(unsigned)time(&t);

srand(seedval);

val=(rand()%35)+11;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

gotoxy(21,11);

cout<<"Your patient id is==>"<<d.pat\_id;

gotoxy(21,12);

cout<<"Your blood sample has been taken";

gotoxy(21,13);

cout<<"Kindly collect your report after "<<val<<" hours";

}

void add2()

{

ofstream out("malaria.dat",ios::binary|ios::app);

diseases2 d2;

d2.getvalue2();

d2.getsymptoms();

d2.tests2();

out.write((char \*)&d2,sizeof(d2));

out.close();

clrscr();

ofstream txt("count.dat",ios::binary|ios::app);

j[r]=0;

j[r]++;

txt<<j[r];

txt.close();

r++;

int i,val;

unsigned int seedval;

time\_t t;

seedval=(unsigned)time(&t);

srand(seedval);

val=(rand()%35)+11;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

gotoxy(21,11);

cout<<"Your patient id is==>"<<d2.pat\_id2;

gotoxy(21,12);

cout<<"Your blood sample has been taken";

gotoxy(21,13);

cout<<"Kindly collect your report after "<<val<<" hours";

}

void searchname()

{

clrscr();

ifstream in("Project.dat",ios::binary|ios::in);

diseases d;

char a[50];

int ww,v=0;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(6,13);

cout<<"Enter the name to be searched==>";

gotoxy(45,13);

gets(a);

gotoxy(6,14);

cout<<"Enter the patient id==>";

gotoxy(45,14);

cin>>ww;

int found=0;

while(in)

{

in.read((char \*)&d,sizeof(d));

if(in.eof())

break;

if(strcmpi(d.retrname(),a)==0 && ww==d.pat\_id)

{

d.showreport();

d.showreport2();

d.showreport3();

getch();

ofstream on("admin.dat",ios::binary|ios::app);

if(gg>=2)

{

result[v]=1;

on<<result[v];

}

else if(gg<2 && jj>=2)

{

result[v]=2;

on<<result[v];

}

else if(jj<2 && ff>=2)

{

result[v]=3;

on<<result[v];

}

else

{

result[v]=4;

on<<result[v];

}

on.close();

textcolor(WHITE);

found=1;

}

}

if(found==0)

{

gotoxy(6,16);

cputs("\n No record of patient to be searched found!!");

delay(1500);

}

v++;

in.close();

}

void searchname2()

{

clrscr();

ifstream in("malaria.dat",ios::binary|ios::in);

diseases2 d2;

char a[50];

int ww,l=0;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(6,13);

cout<<"Enter the name to be searched==>";

gotoxy(45,13);

gets(a);

gotoxy(6,14);

cout<<"Enter the patient id==>";

gotoxy(45,14);

cin>>ww;

int found=0;

while(in)

{

in.read((char \*)&d2,sizeof(d2));

if(in.eof())

break;

if(strcmpi(d2.retrname(),a)==0 && ww==d2.pat\_id2)

{

d2.showr();

d2.showr2();

d2.showr3();

getch();

ofstream on("admin2.dat",ios::binary|ios::app);

if(ff>=3)

{

result2[l]=1;

on<<result2[l];

}

else if(ff>=1 && ff<=2)

{

result2[l]=2;

on<<result2[l];

}

else if(gg>4)

{

result2[l]=3;

on<<result2[l];

}

on.close();

textcolor(WHITE);

found=1;

}

}

if(found==0)

{

gotoxy(6,16);

cputs("\n No record of patient to be searched found!!");

delay(1500);

}

l++;

in.close();

}

void choice()

{

clrscr();

int d;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(6,8);

cout<<"\Following are the diseases which can be tested";

gotoxy(6,11);

cout<<" 1. Diabetes ";

gotoxy(6,12);

cout<<" 2. Malaria ";

cout<<"\n Enter the disease to be tested (1/2)..";

cin>>d;

switch(d)

{

case 1: clrscr();

ifstream in("symptoms.txt",ios::in);

char line[100];

while(in.eof()==0)

{

in.getline(line,100,'\n');

cout<<line<<endl;

}

in.close();

for(int i=9;i>=0;i--)

{

gotoxy(6,20);

textcolor(GREEN+BLINK);

cputs("LOADING ");

cout<<i;

textcolor(GREEN+BLINK);

cputs(" ...");

delay(1000);

}

textcolor(WHITE);

add();

qt=1;

getch();

break;

case 2: clrscr();

ifstream in2("text.txt",ios::in);

char line2[100];

while(in2.eof()==0)

{

in2.getline(line2,100,'\n');

cout<<line2<<endl;

}

in2.close();

for(i=9;i>=0;i--)

{

gotoxy(6,20);

textcolor(GREEN+BLINK);

cputs("LOADING ");

cout<<i;

textcolor(GREEN+BLINK);

cputs(" ...");

delay(1000);

}

textcolor(WHITE);

add2();

qt=2;

getch();

break;

default: gotoxy(6,18);

cputs("Invalid choice made");

delay(1000);

return;

}

}

void count()

{

clrscr();

int sum=0,gg1=0,ff1=0,jj1=0;

int gg2=0,ff2=0,jj2=0;

float p1,p2,p3,h1,h2,h3;

char c;

ifstream in("count.dat",ios::binary|ios::in);

while(in)

{

in.get(c);

if(in.eof())

break;

int(c)=1;

sum=sum+int(c);

}

in.close();

ifstream in1("admin.dat",ios::binary|ios::in);

char s;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,2);

cputs("~");

}

textcolor(WHITE);

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

textcolor(WHITE);

gotoxy(6,3);

cout<<"The total number of patients in this weeek is==>";

cout<<" "<<sum;

while(in1)

{

if(in1.eof())

break;

in1.get(s);

if(int(s)==49)

gg1++;

else if(int(s)==50)

ff1++;

else if(int(s)==52)

jj1++;

else if(int(s)==51)

ff1++;

}

in1.close();

delay(1000);

gotoxy(30,4);

textcolor(GREEN);

cputs("DIABETES");

textcolor(WHITE);

gotoxy(6,5);

cout<<"The total number of diabitic patients in this weeek is==>";

cout<<" "<<gg1;

gotoxy(6,6);

cout<<"The total number of prediabitic patients in this weeek is==>";

cout<<" "<<ff1;

gotoxy(6,7);

cout<<"The total number ofnondiabitic patients in this weeek is==>";

cout<<" "<<jj1;

p1=gg1\*100;

p1=p1/sum;

p2=ff1\*100;

p2=p2/sum;

p3=jj1\*100;

p3=p3/sum;

delay(1000);

gotoxy(6,9);

cout<<"Percentage of diabitic patients in this weeek is==>";

cout<<" "<<p1;

gotoxy(6,10);

cout<<"Percentage of prediabitic patients in this weeek is==>";

cout<<" "<<p2;

gotoxy(6,11);

cout<<"Percentage ofnondiabitic patients in this weeek is==>";

cout<<" "<<p3;

gotoxy(30,13);

textcolor(GREEN);

cputs("MALARIA");

textcolor(WHITE);

ifstream in2("admin2.dat",ios::binary|ios::in);

char s1;

while(in2)

{

if(in2.eof())

break;

in2.get(s1);

if(int(s1)==49)

gg2++;

else if(int(s1)==50)

ff2++;

else if(int(s1)==51)

jj2++;

}

in2.close();

delay(1000);

gotoxy(6,14);

cout<<"The total number of malaria patients in this weeek is==>";

cout<<" "<<gg2;

gotoxy(6,15);

cout<<"Number of patients may be suffering from malaria in this weeek is==>";

cout<<" "<<ff2;

gotoxy(6,16);

cout<<"Number of patients not suffering from malaria in this weeek is==>";

cout<<" "<<jj2;

h1=gg2\*100;

h1=h1/sum;

h2=ff2\*100;

h2=h2/sum;

h3=jj2\*100;

h3=h3/sum;

delay(1000);

gotoxy(6,18);

cout<<"Percentage of diseased patients in this weeek is==>";

cout<<" "<<h1;

gotoxy(6,19);

cout<<"Percentage of may be diseased patients in this weeek is==>";

cout<<" "<<h2;

gotoxy(6,20);

cout<<"Percentage of not diseased patients in this weeek is==>";

cout<<" "<<h3;

getch();

}

void searchadmin()

{

clrscr();

int z;

char w;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(6,13);

cout<<"Do yo want to see reports of...";

gotoxy(6,14);

cout<<"1. Diabitic Patients";

gotoxy(6,15);

cout<<"2. Malaria Patients";

gotoxy(6,16);

cout<<"Enter the number corresponding to your choice..";

cin>>z;

if(z==1)

{

ifstream in("Project.dat",ios::binary|ios::in);

diseases d;

if(in==NULL)

{

clrscr();

gotoxy(25,13);

cputs("No records found!!!");

delay(1000);

}

while(in)

{

in.read((char \*)&d,sizeof(d));

if(in.eof())

{

clrscr();

textcolor(GREEN);

gotoxy(25,13);

cputs("No more records found!!!");

delay(1000);

textcolor(WHITE);

break;

}

d.showreport();

d.showreport2();

d.showreport3();

gotoxy(55,5);

cout<<"Patient ID==>";

cout<<" "<<d.pat\_id;

textcolor(WHITE);

gotoxy(6,24);

cputs("Do you want to see more reports...(y/n)");

gotoxy(60,24);

cin>>w;

w=toupper(w);

if(w=='N')

break;

}

in.close();

}

else if(z==2)

{

ifstream in("malaria.dat",ios::binary|ios::in);

diseases2 d;

if(in==NULL)

{

clrscr();

gotoxy(25,13);

cputs("No records found!!!");

delay(1000);

}

while(in)

{

in.read((char \*)&d,sizeof(d));

if(in.eof())

{

clrscr();

textcolor(GREEN);

gotoxy(25,13);

cputs("No more records found!!!");

delay(1000);

textcolor(WHITE);

break;

}

d.showr();

d.showr2();

d.showr3();

gotoxy(55,5);

cout<<"Patient ID==>";

cout<<" "<<d.pat\_id2;

textcolor(WHITE);

gotoxy(6,24);

cputs("Do you want to see more reports...(y/n)");

gotoxy(60,24);

cin>>w;

w=toupper(w);

if(w=='N')

break;

}

in.close();

}

}

void inside()

{

clrscr();

int z;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(6,9);

textcolor(GREEN);

cputs("What operation do you want to perform ??");

textcolor(WHITE);

gotoxy(6,11);

cout<<"1.See the information of all of today's patient";

gotoxy(6,12);

cout<<"2.Check the stats of diseases";

gotoxy(6,14);

cout<<"Enter your choice from the above given options...";

gotoxy(6,64);

cin>>z;

switch(z)

{

case 1: searchadmin();

char g;

clrscr();

gotoxy(21,13);

cputs("Do you want to go back ???");

gotoxy(21,14);

cputs("Press Y for yes and N for no==>");

cin>>g;

while(g=='y'||g=='Y')

{

inside();

clrscr();

gotoxy(21,13);

cputs("Do you want to go to back ???");

gotoxy(21,14);

cputs("Press Y for yes and N for no==>");

cin>>g;

}

return;

case 2: count();

clrscr();

gotoxy(21,13);

cputs("Do you want to go back ???");

gotoxy(21,14);

cputs("Press Y for yes and N for no==>");

cin>>g;

while(g=='y'||g=='Y')

{

inside();

clrscr();

gotoxy(21,13);

cputs("Do you want to go to back ???");

gotoxy(21,14);

cputs("Press Y for yes and N for no==>");

cin>>g;

}

return;

}

}

void admin()

{

clrscr();

char pass[100];

if(xx==3)

{

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

gotoxy(13,12);

textcolor(GREEN);

cputs("SORRY YOU CANNOT ACCESS THE ADMINISTRATIVE PORTAL!!!!");

textcolor(WHITE);

getch();

return;

}

gotoxy(21,12);

cputs("WELCOME TO THE ADMINISTRATIVE PORTAL");

gotoxy(21,14);

cout<<"Enter the password==>";

gotoxy(44,14);

gets(pass);

for(int i=0;i<strlen(pass);i++)

{

gotoxy(44+i,14);

cout<<'\*';

}

delay(1000);

if(strcmpi(pass,"umesh")==0)

{

inside();

}

for(int j=3;j>0;j--)

{

if(strcmpi(pass,"umesh")!=0)

{

gotoxy(21,16);

cputs("Incorrect password");

gotoxy(21,17);

cout<<"You have ";

cout<<j;

cout<<" attempts left";

gotoxy(21,18);

cputs("Please enter the correct password!!");

gotoxy(44,14);

for(int i=0;i<strlen(pass);i++)

{

gotoxy(44+i,14);

cout<<' ';

}

gotoxy(44,14);

gets(pass);

for(i=0;i<strlen(pass);i++)

{

gotoxy(44+i,14);

cout<<'\*';

}

delay(1000);

xx++;

if(strcmpi(pass,"umesh")==0)

{

inside();

xx--;

}

}

}

}

void givereport()

{

clrscr();

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(6,13);

cout<<"Search report for...";

gotoxy(6,14);

cout<<"1. Diabitic Patient";

gotoxy(6,15);

cout<<"2. Malaria";

gotoxy(6,16);

cout<<"Enter the number corresponding to your choice...";

cin>>qt;

if(qt==1)

searchname();

else if(qt==2)

searchname2();

}

void mainmenu()

{

clrscr();

int n;

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(8,7);

textcolor(GREEN);

cputs("WELCOME TO THE RECEPTION OF OUR PATHALOGY LAB!!");

textcolor(WHITE);

gotoxy(6,10);

cout<<"1.ADMIN LOGIN ";

gotoxy(6,11);

cout<<"2.FETCH REPORT ";

gotoxy(6,12);

cout<<"3.GIVE TEST ";

gotoxy(6,14);

cout<<"Enter number corresponding to your choice==>";

cin>>n;

switch(n)

{

case 1: admin();

break;

case 2: givereport();

break;

case 3: choice();

break;

default:gotoxy(6,18);

cputs("Invalid choice made");

delay(1000);

return;

}

}

void main()

{

char g;

diseases di;

di.welcome\_screen();

textcolor(WHITE);

mainmenu();

clrscr();

for(int yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,22);

cputs("~");

}

for(yy=1;yy<80;yy++)

{

textcolor(YELLOW);

gotoxy(yy,4);

cputs("~");

}

textcolor(WHITE);

gotoxy(21,13);

cputs("Do you want to go to reception ???");

gotoxy(21,14);

cputs("Press Y for yes and N for no==>");

cin>>g;

while(g=='y'||g=='Y')

{

mainmenu();

clrscr();

gotoxy(21,13);

cputs("Do you want to go to reception ???");

gotoxy(21,14);

cputs("Press Y for yes and N for no==>");

cin>>g;

if(g=='n'||g=='N')

break;

}

clrscr();

gotoxy(25,13);

cputs("THANKS FOR YOUR VISIT !!!");

getch();

}