**Source code – Medical Inventory**

#include<iostream>

#include<string.h>

using namespace std;

class node

{

public:

int Price,stock,a,b,c,cub\_no;

char name[10];

node \*next;

node()

{

next=NULL;

}

};

class SLL

{

node \*head;

public:

void create();

void Display();

void add();

void find();

void bill();

};

int main()

{

SLL obj;

int x;

char a;

obj.create();

do

{

cout<<"Press 1:to display the inventory of store\n Press 2:to add new item in inventory\n Press 3:to find a medicine in shop \nPress4:to get a bill of purchase";

cin>>x;

switch(x)

{

case 1: obj.Display();

break;

case 2: obj.add();

break;

case 3: obj.find();

break;

case 4: obj.bill();

break;

}

cout<<"\nPress C to continue";

cin>>a;

}while(a=='C');

}

void SLL::create()

{

node \*p;

char x;

char data[10];

head=new node();

p=head;

cout<<"Enter name of medicine"<<endl;

cin >>data;

strcpy(head->name,data);

cout<<"\nEnter price:"<<endl;

cin>>head->Price;

cout<<"\nEnter Date {D/M/Y} :"<<endl;

cin>>head->a>>head->b>>head->c;

cout<<"\nEnter stock :"<<endl;

cin>>head->stock;

cout<<"\nEnter cuboard no of medicine:"<<endl;

cin>>head->cub\_no;

while(1)

{

cout<<"Enter S to stop or C to continue "<<endl;

cin>>x;

if(x=='S')

{

break;

}

else

{ p->next=new node();

p=p->next;

cout<<"Enter name of medicine"<<endl;

cin >>data;

strcpy(p->name,data);

cout<<"\nEnter price:"<<endl;

cin>>p->Price;

cout<<"\nEnter Date {D/M/Y} :"<<endl;

cin>>p->a>>p->b>>p->c;

cout<<"\nEnter stock :"<<endl;

cin>>p->stock;

cout<<"\nEnter cuboard no of medicine:"<<endl;

cin>>p->cub\_no;

}

}

cout<<" ::Data stored:: "<<endl;

cout<<"-------------------------THANK\_YOU-----------------------------"<<endl;

}

void SLL::Display()

{

int i=1;

node \*p;

p=head;

while(p!=NULL)

{

cout<<"The inventory of Medical Store is as follow";

cout<<i<<":"<<p->name<<","<<p->Price<<","<<p->a<<"/"<<p->b<<"/"<<p->c<<","<<p->stock<<","<<p->cub\_no<<endl;

i++;

p=p->next;

}

}

void SLL::add()

{

node \*p,\*q;

char data[10];

p=head;

q=new node();

cout<<"Enter name of medicine"<<endl;

cin >>data;

strcpy(q->name,data);

cout<<"\nEnter price:"<<endl;

cin>>q->Price;

cout<<"\nEnter Date {D/M/Y} :"<<endl;

cin>>q->a>>q->b>>q->c;

cout<<"\nEnter stock :"<<endl;

cin>>q->stock;

cout<<"\nEnter cuboard no of medicine:"<<endl;

cin>>p->cub\_no;

while(p->next!=NULL)

{

p=p->next;

}

p->next=q;

q->next=NULL;

cout<<"\n ITEM ADDED";

}

void SLL::find()

{

node \*p;

int x=0;

char data[10];

cout<<"\nEnter name of medicine: "<<endl;

cin>>data;

p=head;

while(p!=NULL)

{

if(strcmp(p->name,data)==0)

{

x=1;

cout<<"-----------------------------------------------------------------";

cout<<"Medicine Found"<<endl;

cout<<"Cuboard No:"<<p->cub\_no<<endl;

cout<<"Number of medicine in stock:"<<p->stock<<endl;

cout<<"Expiry date:"<<p->a<<"/"<<p->b<<"/"<<p->c<<endl;

cout<<"Price is:"<<p->Price<<endl;

cout<<"--------------------------------------------------------------------";

break;

}

p=p->next;

}

if(x==0)

{

cout<<"---------------------------------------------------------------"<<endl;

cout<<"\nMedicine not found";

}

}

void SLL::bill()

{

node \*p;

p=head;

int i=0;

char x;

do

{

char data[10];

cout<<"\nEnter name of medicine you bought\n";

cin>>data;

if(strcmp(p->name,data)==0)

{

i=i+p->Price;

}

p=p->next;

cout<<"Enter S to stop C to continue"<<endl;

cin>>x;

}while(x!='S');

cout<<"Your bill is :"<<i;

}