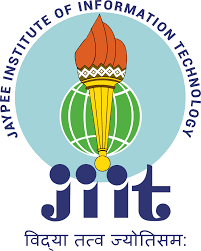
JAYPEE INSTITUTE OF

INFORMATION TECHNOLOGY, NOIDA



SDF-2 MINI PROJECT

( Btech 2ndSemester IT )

**STATIONARY**

**MANAGEMENT SYSTEM**

**Batch:***B14*

**Submitted By:**

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**Acknowledgement**

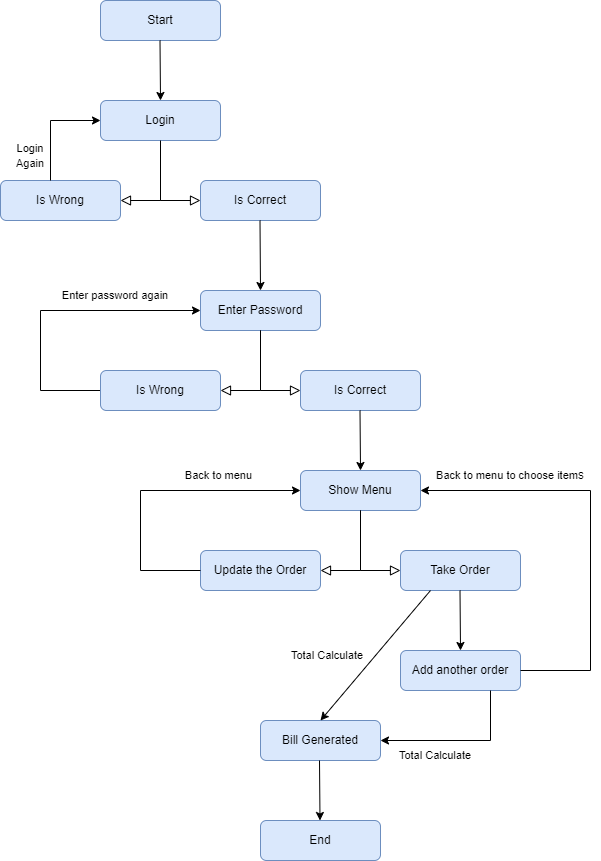
We would like to express our special thanks of gratitude to our SDF-II Lab teachers who gave us the golden opportunity to do this wonderful project on the topic, Stationery Management System, which also helped us in doing a lot of research and we came to know a lot aboutmany new things. Weare really thankful to them.

Secondly, we would also like to thank our parents and friends who helped us a lot in finalizing this project within the limited time frame.

**ABSTRACT**

STATIONERY MANAGEMENT SYSTEM is mainly designed primarily for use in the online shopping industry. First a login page will open, where the user will be asked to enter his/hername, user ID and correct password. If the password or ID is incorrect , system will ask again to give correct ID and password. The customers can select required items from a variety of menu items in just few clicks. Once the customer selects an item the system will ask whether he/she wants to edit the order or not. Then the customer will be asked to give the quantity of item he/she is ordering. Once the customer confirms the quantity, he/she will be asked whether he/she want order any other item or not. If the he/she wants to add another the system will take them to main menu and ask which item they want to add. Once he/she confirms they don’t want to add any other item, the bill will be generated.

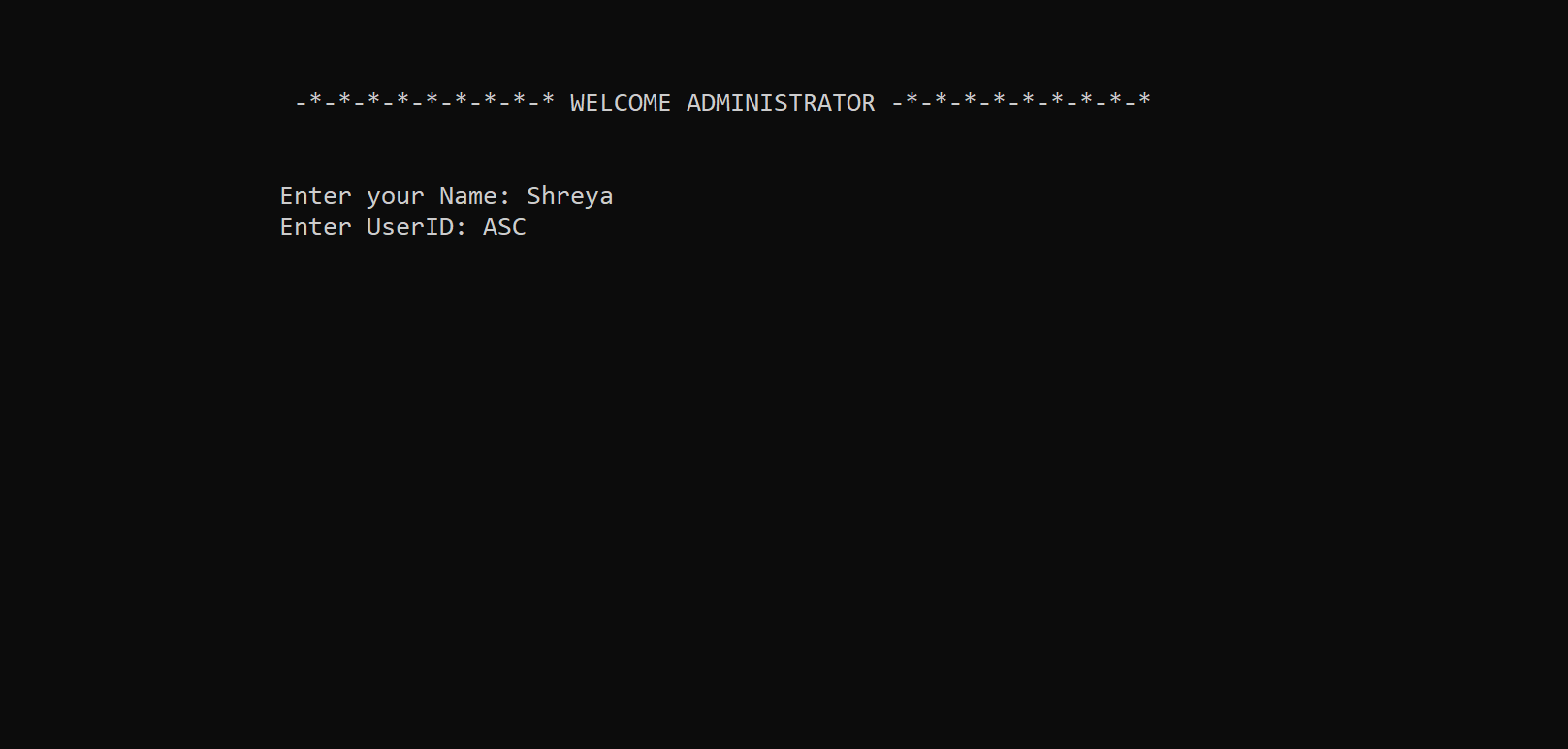
**Design of the project**



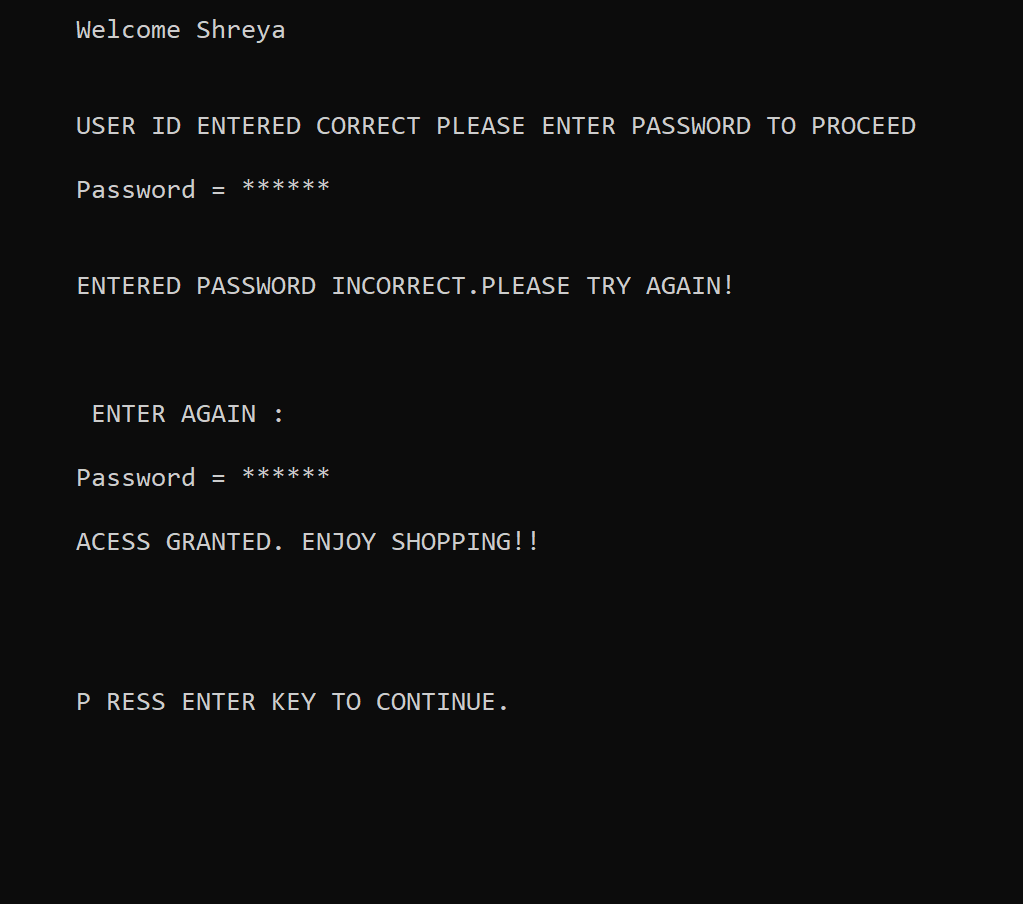
**Implementation details**

*Main Screen*

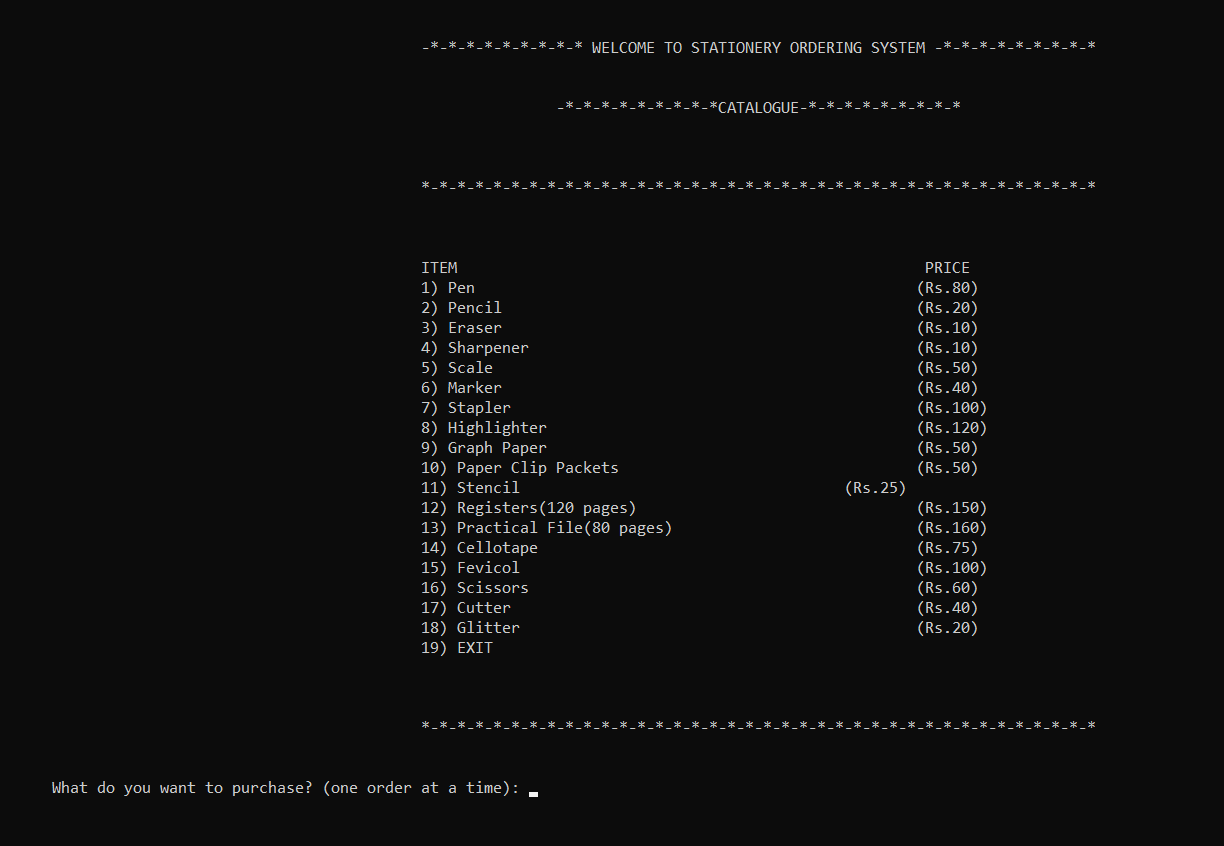
‘



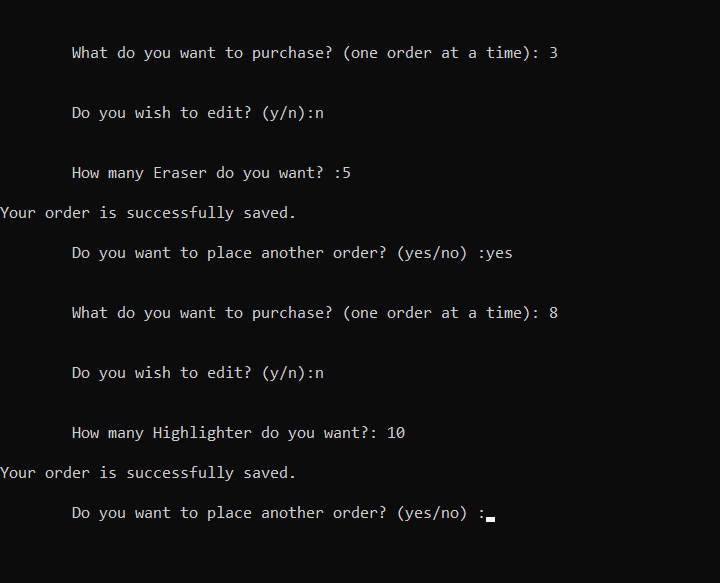
*Incorrect Password*



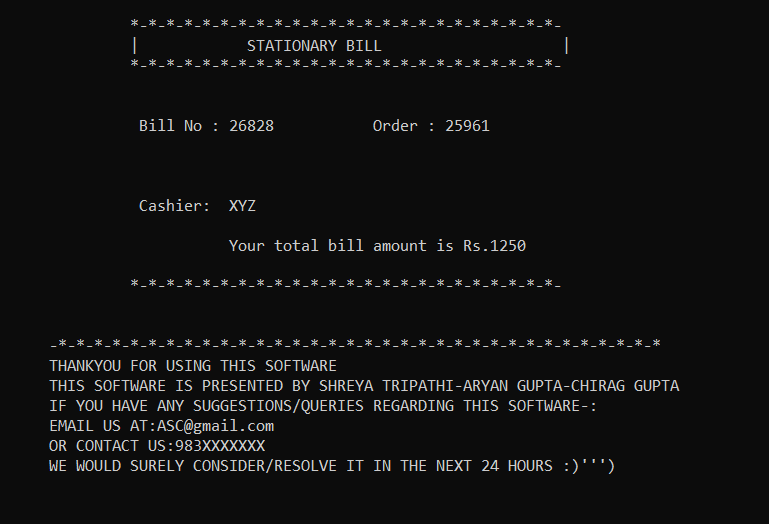
*Menu*



*Taking Order*



*Generated Bill*



**Source Code**

#include<iostream>

//used to handle string datatype

#include<cstring>

//used for file handling

#include<fstream>

//will be used for random number generation

#include<ctime>

//used for functions like system("cls") , getch() etc

#include<cstdlib>

#include<conio.h>

#include<windows.h>

using namespace std;

class Catalogue\_Display

{

public:

//will display the catalogue of available stationary items

void catalogue();

};

void Catalogue\_Display::catalogue()

{

cout<<"\n\n\n\t\t\t\t\t\t -\*-\*-\*-\*-\*-\*-\*-\*-\* WELCOME TO STATIONERY ORDERING SYSTEM -\*-\*-\*-\*-\*-\*-\*-\*-\*"<<endl;

cout<<"\n\n\t\t\t\t\t\t -\*-\*-\*-\*-\*-\*-\*-\*-\*CATALOGUE-\*-\*-\*-\*-\*-\*-\*-\*-\*"<<endl;

cout<<"\n\n\n\t \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*"<<endl;

cout<<"\n\n\n\t\t\t\t\t\t ITEM\t\t\t\t\t\t PRICE\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 1) Pen \t\t\t\t\t\t(Rs.80)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 2) Pencil\t\t\t\t\t\t(Rs.20)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 3) Eraser \t\t\t\t\t\t(Rs.10)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 4) Sharpener \t\t\t\t\t\t(Rs.10)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 5) Scale \t\t\t\t\t\t(Rs.50)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 6) Marker \t\t\t\t\t\t(Rs.40)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 7) Stapler \t\t\t\t\t\t(Rs.100)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 8) Highlighter \t\t\t\t\t(Rs.120)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 9) Graph Paper \t\t\t\t\t(Rs.50)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 10) Paper Clip Packets\t\t\t\t\t(Rs.50)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 11) Stencil Obj\t\t\t\t\t(Rs.25)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 12) Registers(120 pages)\t\t\t\t(Rs.150)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 13) Practical File(80 pages)\t\t\t\t(Rs.160)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 14) Cellotape \t\t\t\t\t\t(Rs.75)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 15) Fevicol \t\t\t\t\t\t(Rs.100)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 16) Scissors \t\t\t\t\t\t(Rs.60)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 17) Cutter \t\t\t\t\t\t(Rs.40)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 18) Glitter \t\t\t\t\t\t(Rs.20)\t\t\t"<<endl;

cout<<"\t\t\t\t\t\t 19) EXIT\t\t\t\t"<<endl;

cout<<"\n\n\n\t \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*"<<endl;

}

//publically inherited from class one

class Purchase:publicCatalogue\_Display

{

protected:

//private members that can be inherited

//obj variable will store the quantity of items bought

int obj=0;

//ch variable is storing the choice of item

//ch variable will store yes or no statements for if else loops

int ch=0;

//these variables will define the price of our menu items

int a=0;

int b=0;

int c=0;

int d=0;

int e=0;

int f=0;

int g=0;

int h=0;

int i=0;

int j=0;

int k=0;

int l=0;

int m=0;

int n=0;

int o=0;

int p=0;

int q=0;

int r=0;

// s - for sum of total bill

int s=0;

//for taking y/n or yes/no as input

string y;

//storing the answer yes or no for the logical flow of program

//ensures that the user can edit its entered choice

string ye;

public:

//this function stores all order details in a file called total.

void order\_menu()

{

//attaches the output stream ofw to output class ofstream

ofstreamofw;

//opens total.text in append mode

ofw.open("total.txt",ios::app);

//if file object can't be allocated or error in file opening

if(!ofw)

{

cout<<"file can not open"<<endl;

exit (-1);

}

//labels for goto statements

//label a

a:

//label b

b:

//label c

c:

cout<<"\n\n\tWhat do you want to purchase? (one order at a time): ";

cin>>ch;

//giving choice whether you want to proceed with the current selected item

cout<<"\n\n\tDo you wish to edit? (y/n):";

cin>>ye;

if(ye=="y" || ye=="Y")

{

goto b;

//reverts back to initial label b and choices are offered again

}

else

//continue with the initial choice

{

switch(ch) {

case 1:

cout<<"\n\n\tHow many pen do you want? : ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

a=80;

//updates the total bill value

s=s+a\*obj;

//cout<<"quantity -"<<obj<<endl;

//writes this content in the file

ofw<<"Your Order - Pen : 80";

ofw<<" \n";

ofw<<"Number of Pen is: "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 2:

cout<<"\n\n\tHow many Pencil do you want? : ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

b=20;

//updates the total bill value

s=s+b\*obj;

//cout<<"quantity -"<<obj<<endl;

//writes this content in the file

ofw<<"Your Order - Pencil : 20";

ofw<<" \n";

ofw<<"Number of Pencil is: "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 3:

cout<<"\n\n\tHow many Eraser do you want? :";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

c=10;

//updates the total bill value

s=s+c\*obj;

//writes this content in the file

ofw<<"Your order - Eraser : 10";

ofw<<" \n";

ofw<<"Number of Eraser is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 4:

cout<<"\n\n\tHow many Sharpener do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

d=10;

//updates the total bill value

s=s+d\*obj;

//writes this content in the file

ofw<<"Your Order - Sharpener : 10";

ofw<<" \n";

ofw<<"Number of Sharpener is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 5:

cout<<"\n\n\tHow many Scale do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

e=50;

//updates the total bill value

s=s+e\*obj;

//writes this content in the file

ofw<<"Your Order - Scale : 50";

ofw<<" \n";

ofw<<"Number of Scale is : "<<obj;

ofw<<"\n";

cout<<"\tYour order is successfully saved."<<endl;

break;

case 6:

cout<<"\n\n\tHow many Marker do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

f=40;

//updates the total bill value

s=s+f\*obj;

//writes this content in the file

ofw<<"Your Order - Marker : 40";

ofw<<"\n ";

ofw<<"Number of Marker is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 7:

cout<<"\n\n\tHow many Stapler do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

g=100;

//updates the total bill value

s=s+g\*obj;

//writes this content in the file

ofw<<"Your Order - Stapler : 100";

ofw<<"\n ";

ofw<<"Number of Stapler is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 8:

cout<<"\n\n\tHow many Highlighter do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

h=120;

//updates the total bill value

s=s+h\*obj;

//writes this content in the file

ofw<<"Your Order - Highlighter : 120";

ofw<<" \n";

ofw<<"Number of Highlighter is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 9:

cout<<"\n\n\tHow many Graph Paper do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

i=50;

//updates the total bill value

s=s+i\*obj;

//writes this content in the file

ofw<<"Your Order - Graph Paper : 50";

ofw<<" \n";

ofw<<"Number of Graph Paper is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 10:

cout<<"\n\n\tHow many Paper Clip Packets do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

j=50;

//updates the total bill value

s=s+j\*obj;

//writes this content in the file

ofw<<"Your Order - Paper Clip Packets : 50";

ofw<<" \n";

ofw<<"Number of Paper Clip Packets is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 11:

cout<<"\n\n\tHow many Stencil do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

k=25;

//updates the total bill value

s=s+k\*obj;

//writes this content in the file

ofw<<"Your Order - Stencil : 25";

ofw<<" \n";

ofw<<"Number of Stencil is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 12:

cout<<"\n\n\tHow many Registers do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

l=150;

//updates the total bill value

s=s+l\*obj;

//writes this content in the file

ofw<<"Your Order - Registers : 150";

ofw<<" \n";

ofw<<"Number of Registers is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 13:

cout<<"\n\n\tHow many Practical Files do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

m=160;

//updates the total bill value

s=s+m\*obj;

//writes this content in the file

ofw<<"Your Order - Practical Files : 160";

ofw<<" \n";

ofw<<"Number of Practical Files is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 14:

cout<<"\n\n\tHow many Cello-tape do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

n=75;

//updates the total bill value

s=s+n\*obj;

//writes this content in the file

ofw<<"Your Order - Cellotape : 75";

ofw<<" \n";

ofw<<"Number of Cellotape is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 15:

cout<<"\n\n\tHow many Fevicol do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

o=100;

//updates the total bill value

s=s+o\*obj;

//writes this content in the file

ofw<<"Your Order - Fevicol : 100";

ofw<<"\n ";

ofw<<"Number of Fevicol is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 16:

cout<<"\n\n\tHow many Scissors do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

p=60;

//updates the total bill value

s=s+p\*obj;

//writes this content in the file

ofw<<"Your Order - Scissors : 60";

ofw<<"\n ";

ofw<<"Number of Scissors is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 17:

cout<<"\n\n\tHow many Cutters do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

q=40;

//updates the total bill value

s=s+q\*obj;

//writes this content in the file

ofw<<"Your Order - Cutters : 40";

ofw<<"\n ";

ofw<<"Number of Cutters is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 18:

cout<<"\n\n\tHow many Glitters do you want?: ";

// inputs the number of the particular item which user wants

cin>>obj;

//define the price of the object here price

r=20;

//updates the total bill value

s=s+r\*obj;

//writes this content in the file

ofw<<"Your Order - Glitters : 20";

ofw<<"\n ";

ofw<<"Number of Glitters is : "<<obj;

ofw<<"\n";

cout<<"\t\nYour order is successfully saved."<<endl;

break;

case 19:

//prints this line before exiting.

cout<<"\n\n\t\t\t\t\t\t-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*\n\t\t\t\t\t\tTHANKYOU FOR USING THIS SOFTWARE\n\t\t\t\t\t\tTHIS SOFTWARE IS PRESENTED BY SHREYA TRIPATHI-ARYAN GUPTA-CHIRAG GUPTA\n\t\t\t\t\t\tIF YOU HAVE ANY SUGGESTIONS/QUERIES REGARDING THIS SOFTWARE-:\n\t\t\t\t\t\tEMAIL US AT:ASC@gmail.com\n\t\t\t\t\t\tOR CONTACT US:983XXXXXXX\n\t\t\t\t\t\tWE WOULD SURELY CONSIDER/RESOLVE IT IN THE NEXT 24 HOURS :)''')"<<endl;

//will wait for the user to press any key to exit the program.

getch();

exit(0);

break;

default:

cout<<"\n\n\t\t\t\t\t\t\tPlease enter a valid item number."<<endl;

goto c;

break;

}

//asks if user wants to place another order

cout<<"\n\tDo you want to place another order? (yes/no) :";

cin>>y;

if(y=="yes" || y=="YES")

{

goto a;

//goes back to label a with same values of s and obj

//but obj gets overwritten when inputted on it again.

//and value of s is adding again and again in same variable

}

else

{

cout<<"\n\t\t\t\t\t\t\tTHANK YOU FOR YOUR ORDER :)"<<endl;

cout<<"\n\t\t\t\t\t\t\t HAVE A WONDERFUL DAY!!!"<<endl;

cout<<"\n\n\t\t\t\t\t\t\tGENERATING BILL "<<endl;

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

for(int a=1;a<50;a++)

{

Sleep(50);

cout<<".";

}

cout<<"\n\t\t\t\t\t\t\tBILL GENERATED.\n\n";

cout<<"\t\t\t\t\t\t\tTO PRINT PRESS ANY KEY.\n\n";

getch();

/\*

for(int a=1;a<5;a++)

{

//sleep(500);

//to create a slight delay between the text and the actual display of bill

for(int i=0;i<10;i++) {

//empty for loop , will take some time to execute, which will give us the desired delay effect.

//cout<< "...";

}

//cout<< "...";

}

\*/

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

}

}

//clears the screen

system("cls");

//generated bill interface

cout<< "\n\t\t\t\t\t\t\t \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-"<<endl;

cout<< "\t\t\t\t\t\t\t | STATIONARY BILL |"<<endl;

cout<< "\t\t\t\t\t\t\t \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-"<<endl;

cout<<endl;

cout<<endl;

// helps in random bill number generation

//ensures generation of unique numbers each time by connecting the algorithm to the computer system's time so that each time a new number can be generated

srand(time(NULL));

cout<< "\t\t\t\t\t\t\t Bill No : "<<rand()<<" Order : "<<rand()<<endl;

cout<<endl;

cout<<endl;

cout<<endl;

cout<< "\t\t\t\t\t\t\t Cashier: XYZ"<<endl;

cout<<endl;

cout<<"\t\t\t\t\t\t\t\t Your total bill amount is Rs."<<s<<endl;

//write the total bill values into the file

// ofw<<"\t\t\t\t\t\t\t ";

ofw<<"\n\t\t\t\t\t\t\tTotal: "<<s;

ofw<<"\n\n";

cout<< "\n\t\t\t\t\t\t\t \*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-"<<endl;

cout<<"\n\n\t\t\t\t\t\t-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*-\*\n\t\t\t\t\t\tTHANKYOU FOR USING THIS SOFTWARE\n\t\t\t\t\t\tTHIS SOFTWARE IS PRESENTED BY SHREYA TRIPATHI-ARYAN GUPTA-CHIRAG GUPTA\n\t\t\t\t\t\tIF YOU HAVE ANY SUGGESTIONS/QUERIES REGARDING THIS SOFTWARE-:\n\t\t\t\t\t\tEMAIL US AT:ASC@gmail.com\n\t\t\t\t\t\tOR CONTACT US:983XXXXXXX\n\t\t\t\t\t\tWE WOULD SURELY CONSIDER/RESOLVE IT IN THE NEXT 24 HOURS :)''')"<<endl;

ofw.close();

}

void display()

{

catalogue();

order\_menu();

}

};

class Authenticate\_User:publicCatalogue\_Display,public Purchase

{

public:

void authenticate()

{

//for user id of administrator

cout<<"\n\n\n\t\t\t\t\t\t -\*-\*-\*-\*-\*-\*-\*-\*-\* WELCOME ADMINISTRATOR -\*-\*-\*-\*-\*-\*-\*-\*-\*"<<endl;

d:

string name;

string userId;

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

cout<<"\n\n\t\t\t\t\t\tEnter your Name: ";

cin>>name;

cout<<"\t\t\t\t\t\tEnterUserID: ";

cin>>userId;

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

//once user has started using application the screen will print for entering user id

//once user has entered the user id it will be checked in if condition

//if condition is failed it will call goto function and goto d and will ask user to enter correct ID

if(userId!="ASC")

{

cout<<"\n \t\t\t\t\t\tENTERED ID INCOREECT.PLEASE TRY AGAIN.\n";

goto d;

}

else

system("cls");

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

cout<<"\n\n\n\t\t\t\t\t\t\tUSER ID ENTERED CORRECT PLEASE ENTER PASSWORD TO PROCEED\n";

z:

string pwd="tiger";

//initially empty string

string pass="";

char c;

/\*once user has entered correct user id user will be asked to put password

once the password is entered it will be checked against the password if the condition is true

then it print the menu if false then user has to enter the pass again

\*/

cout<<"\n\t\t\t\t\t\t\tPassword = ";

p:

//wait for user to enter every character

c=getch();

cout<<"\*";

//for printing \* instead for password

//as password should not be visible always should be encrypted

//13 is the ascii value for enter key, so it will for you to enter the password

//till you press the enter key

if(c!=13)

{

pass=pass+c;

//for concatenating the string

goto p;

}

{

if(pass==pwd)

{

cout<<"\n\n\t\t\t\t\t\t\tACESS GRANTED. ENJOY SHOPPING!!\n\n\n";

cout<<"\n\n\t\t\t\t\t\t\tPRESS ENTER KEY TO CONTINUE.";

getch();

system("cls");

display();

//opens the file gain to input of username,userid and passsword

// only is the password is correct, hence put in the if condition.

ofstream ofc;

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

ofc<<"\n";

ofc<<"Username: "<<name;

ofc<<"\n";

ofc<<"UserId: "<<userId;

ofc<<"\n";

ofc<<"Password: "<<pass;

ofc<<"\n\n";

ofc.close();

}

else

{

cout<<"\n\n\n\t\t\t\t\t\t\tENTERED PASSWORD INCORRECT.PLEASE TRY AGAIN!\n";

cout<<"\n\n\n\t\t\t\t\t\t\t ENTER AGAIN :\n";

goto z;

}

}

}

};

int main()

{

// initializing object for the class Authenticate\_User

Authenticate\_User user;

// calling for total function bill

user.authenticate();

getch();}

**References**

1. <https://www.geeksforgeeks.org/>
2. <https://www.tutorialspoint.com/cplusplus/index.htm>
3. <https://youtube.com>