**TECH-STOP**

**A Project Report**

***Submitted by***

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# ABSTRACT

We tried to make an electronic shop billing system known as TECH-STOP which is based on a concept of storing and selling electronic products. It is a concept to generate daily payment transactions bill.

Our application is user friendly and easy to access by a newcomer.

Our billing system is a complete solution that helps you in billing, build customer loyalty, manage customers, keep track of stock, check reports and even more. TechStop pays more attention to billing and generation of a report. TechStop makes it easier for the user to select a particular product from the choice that the system provides .And keeps the admin updated about the stock available, products sold and the payment history of the user. TechStop reduces labour as the user has to select and print the bill by itself. The admin only had to receive the money according to the bill and exchange the product. TechStop also generates reports for the admin to analyse its progress.

We have created this system with c++ using code blocks.

Tech-Stop contains limited features but the essential ones.

In future we would like adding more products to provide a wide range of options, create an account for a user, provide with schemes beneficial for user.

Our future work also involves modification of the list of product selected by the customer, addition of new stock and products by the admin include a wallet system for an existing user.

Also develop a functionality so as to enable the user to search a product based on criteria like most sold, a range of price etc.

In future we wish to work on this system and add more features and functionality thereby making it an efficient and a better system.

# INTRODUCTION

This Simple Electronic Store Management System known as **TECH STOP** is based on a concept of storing and selling electronic products. It is a concept to generate daily payment transactions bill.

A billing system is a complete solution that helps you in billing, build customer loyalty, manage customers, keep track of stock, payables and receivables, accounting, manage multiple stores, check reports and even more.

Electronic Store Management System is developed using C++ Programming .This mini project contains limited features, but the essential one.

The age has advanced in the field of innovation thus has the utilization of innovations increased. There is a drastic change in the ages(generation). Because of this we have been dependant on the electronic gadgets. So we chose to have a program about the shopping and billing of the electronic devices.

## 1.1 FEATURES OF OUR SYSTEM

### 1.1.1 USER

There is a login system for the user which accepts personal information like name ,email-id and phone number. Here, the user can view products and buy products of their own choice easily. The system includes various choice of electronics like earphones, mobile, laptop and tablets of different brands. The user selects from these choices.

### 1.1.2 MANAGEMENT WITH FILES

Once the user selects a product, the information of the user and the product selected is simultaneously stored in a file for the future reference of the admin. Also the quantity of the product bought are deducted from total quantity to update the availability of the stock. The system also stores information in a file to keep a record of the items sold from time to time.

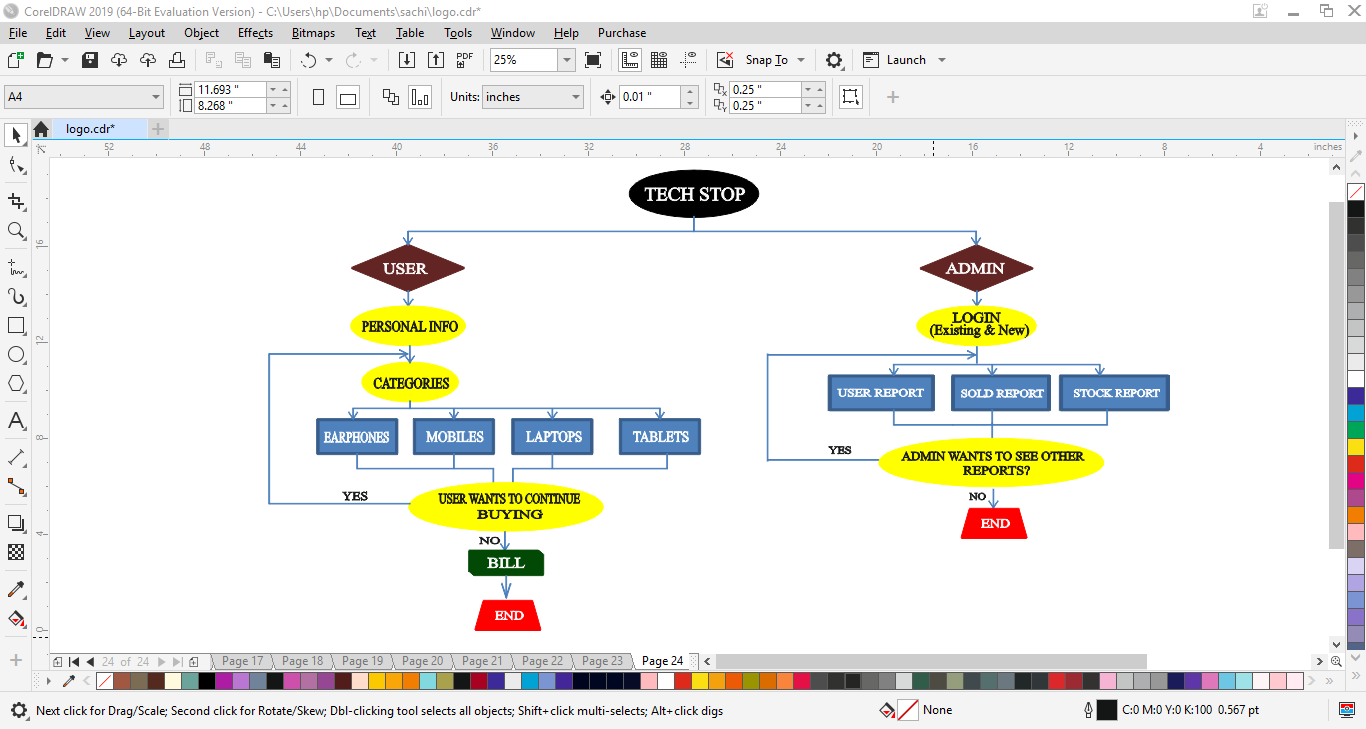
### 1.1.3 ADMIN AND REPORTS

It also allows the admin to view reports like stock, sold and user once choices are made by the user. The system allows the admin to check the stock available at the moment through the stock report, the amount of products sold through sold report, the user report displays the details of the user that contains the product name, price, total quantity bought by that user. Thus the admin can come to know about the progress of its shop.

### 1.1.4 GENERATION OF BILL

The total amount is calculated on the basis of item selected and amount of quantity entered by the user. And finally displayed in a bill.

## 1.2 FLOW OF THE PROGRAM:



**Figure 1.2:** Flow of the program

## 1.3 EXISTING SYSTEM:

FreshBooks is a hassle-free cloud-based billing software for a retail shop. It creates professional-looking invoices and bills, tracks expenses, helps in time-tracking & managing, manages teams, and so on.

FreshBooks offers a subscription-based product that includes invoicing, accounts payable, expense tracking, time tracking, retainers, fixed asset depreciation, purchase orders, payroll integrations, double-entry accounting, and industry-standard business and management reporting.

All financial data is stored in the cloud on a single unified ledger, allowing users to access the same set of books regardless of location on desktop and mobile. It offers a free API that enables customers and 3rd-party software vendors to integrate external applications with FreshBooks. FreshBooks also supports multiple tax rates and currencies. It also incorporates a payroll feature and a projects feature.[1]



Figure 1.3: Fresh book logo[2]

TechStop pays more attention to billing and generation of a report. TechStop makes it easier for the user to select a particular product from the choice that the system provides .And keeps the admin updated about the stock available, products sold and the payment history of the user.

TechStop reduces labour as the user has to select and print the bill by itself. The admin only had to receive the money according to the bill and exchange the product.

TechStop also generates reports for the admin to analyse its progress.

# 2. TOOLS & TECHNIQUES

## 2.1 TOOLS

### 2.1.1 IDE

Integrated Development Environment enables programmers to consolidate the different aspects of writing a computer program. IDEs increase programmer productivity by combining common activities of writing software in to a single application: editing source code, building executable, and debugging. [3]

There are various IDEs like:

1. Visual Studio

Microsoft Visual Studio is an integrated development environment from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps.



**Figure 2.1:** Visual studio [4]

2. Turbo C++

Turbo C was an integrated development environment (IDE) for programming in the C language. It was developed by Borland and first introduced in 1987. At the time, Turbo C was known for its compact size, comprehensive manual, fast compile speed and low price. It had many similarities to an earlier Borland product, Turbo Pascal, such as an IDE, a low price and a fast compiler, but was not as successful because of competition in the C compiler market. [5]



**Figure 2.2:**turbo c++[6]

3. Code Blocks

**Code::Blocks** is a free, [open-source](https://en.wikipedia.org/wiki/Open-source_software) cross-platform IDE that supports multiple compilers including GCC, [Clang](https://en.wikipedia.org/wiki/Clang) and Visual C++. It is developed in C++ using wxWidgets as the GUI toolkit. Using a plugin architecture, its capabilities and features are defined by the provided plugins. Currently, Code::Blocks is oriented towards [C](https://en.wikipedia.org/wiki/C_(programming_language)), [C++](https://en.wikipedia.org/wiki/C%2B%2B), and [Fortran](https://en.wikipedia.org/wiki/Fortran). It has a custom build system and optional [Make](https://en.wikipedia.org/wiki/Make_(software)) support.

We used code blocks for the following features and also because we use code blocks in college for coding.

1. Compilers

Code::Blocks supports multiple compilers, including [GCC](https://en.wikipedia.org/wiki/GNU_Compiler_Collection), [MinGW](https://en.wikipedia.org/wiki/MinGW" \o "MinGW), [Digital Mars](https://en.wikipedia.org/wiki/Digital_Mars), [Microsoft Visual C++](https://en.wikipedia.org/wiki/Visual_C%2B%2B), [Borland C++](https://en.wikipedia.org/wiki/Borland_C%2B%2B), [LLVM Clang](https://en.wikipedia.org/wiki/Clang), [Watcom](https://en.wikipedia.org/wiki/Watcom_C_compiler" \o "Watcom C compiler), [LCC](https://en.wikipedia.org/wiki/LCC_(compiler)) and the [Intel C++ compiler](https://en.wikipedia.org/wiki/Intel_C%2B%2B_compiler).

1. Code editor

The IDE features [syntax highlighting](https://en.wikipedia.org/wiki/Syntax_highlighting) and [code folding](https://en.wikipedia.org/wiki/Code_folding) (through its [Scintilla](https://en.wikipedia.org/wiki/Scintilla_(editing_component)) editor component), C++ [code completion](https://en.wikipedia.org/wiki/Autocomplete), class browser, a [hex editor](https://en.wikipedia.org/wiki/Hex_editor) and many other utilities. Opened files are organized into tabs. The code editor supports font and font size selection and personalized syntax highlighting colours.

1. Debugger

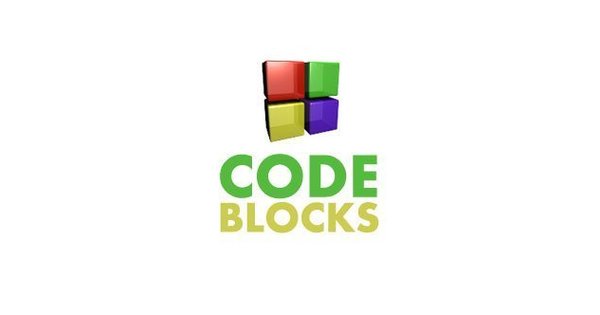
The Code::Blocks debugger has full breakpoint support. It also allows the user to debug their program by having access to the local function symbol and argument display, user-defined watches, call stack, [disassembly](https://en.wikipedia.org/wiki/Disassembly), custom memory dump, thread switching, [CPU](https://en.wikipedia.org/wiki/CPU) registers and [GNU Debugger](https://en.wikipedia.org/wiki/GNU_Debugger) Interface.

1. User migration

Some of Code::Blocks features are targeted at users migrating from other IDE's - these include [Dev-C++](https://en.wikipedia.org/wiki/Dev-C%2B%2B" \o "Dev-C++), Microsoft Visual C++ project import (MSVC 7 & 10), and Dev-C++ Devpak support.

1. Project files and build system

Code::Blocks uses a custom build system, which stores its information in XML-based project files. It can optionally use external make files, which simplifies interfacing with projects using the GNU or [make](https://en.wikipedia.org/wiki/Qmake) build systems. [7]



**Figure 2.3:** Code blocks

### 2.1.2 COMPILER

A compiler is a software program that transforms high-level source code that is written by a developer in a high-level programming language into a low level object code (binary code) in machine language, which can be understood by the processor. The process of converting high-level programming into machine language is known as compilation.

The compiler used for this program is - MinGW GCC C/C++ [8]

### 2.1.3 HEADER FILES

1. iostream – allows the programmer to take input and output from the console
2. fstream – allows the program to establish streams and communicate with text files
3. string – allows programmer to use string variables and functions
4. iomanip-allows the programmer to use manipulators life setw , setfill etc.

## 2.2 TECHNIQUES

### 2.2.1 Classes

The building block of C++ that leads to Object Oriented programming is a **Class**. It is a user defined data type, which holds its own data members and member functions, which can be accessed and used by creating an instance of that class. A class is like a blueprint for an object.

* A Class is a user defined data-type which has data members and member functions.
* Data members are the data variables and member functions are the functions used to manipulate these variables and together these data members and member functions defines the properties and behaviour of the objects in a Class.[9]

Classes in our program:

Electronics: for displaying electronic choices to the user, taking input from the user, generating the bill, displaying the bill.

Data members:

* name : stores name of the user
* sname : stores surname f the user
* email : stored email id of the user
* number : stores the phone number of the user
* pn : stores product name
* pp : stores product price
* pq : stores product quantity
* tpq : stores total product quantity available
* amt : stores amount of product selected by the user
* price : stores price of an individual product with respect to its quantity.

Admin : accepts login id and password from the admin , allows the admin to check stock ,sold and user report.

Data members:

* pn1: stores product name for the file.
* pp1: stores product price for the file.
* tpq1: stores total product quantity for the file.

### 2.2.2 Objects

An **Object** is an instance of a Class. When a class is defined, no memory is allocated but when it is instantiated (i.e. an object is created) memory is allocated.[9]

### 2.2.3 Looping

Loops in programming comes into use when we need to repeatedly execute a block of statements.

In Loop, the statement needs to be written only once and the loop will be executed 10 times as shown below.  
In computer programming, a loop is a sequence of instructions that is repeated until a certain condition is reached.[10]

We have used for ,while and do while loop.

### 2.2.4 Jump statements

Jump statements are used to alter the flow of control unconditionally. That is, jump statements transfer the program control within a function unconditionally. The jump statements defined in C++ are break, continue, goto and return. In addition to these jump statements, a standard library function exit () is used to jump out of an entire program.[11]

We have used goto and break in our program.

### 2.2.5 Functions

A function is a set of statements that take inputs, do some specific computation and produces output.

The idea is to put some commonly or repeatedly done task together and make a function so that instead of writing the same code again and again for different inputs, we can call the function.[12]

Functions in our program:

* prodis() :display the product selected
* info() : input information of customer
* userdisplay() :display information of user in the bill
* earphones(): displays and accepts choice of user from the list of earphones
* mobile():displays and accepts choice of user from the list of mobile
* laptop():displays and accepts choice of user from the list of laptop
* tablet():displays and accepts choice of user from the list of tablet
* display():display item selected
* fdisplay():display total amount
* calculate():calculates amout
* input(): stores data in a file
* modifye():modifies total quantity of earphones available
* modifym():modifies total quantity of mobile available
* modifyl():modifies total quantity of laptop available
* modifyt():modifies total quantity of tablet available
* soldreport():displays sold report
* userreport():displays user report
* stockreporte():displays stock report of earphones
* stockreportm():displays stock report of mobile
* stockreportl():displays stock report of laptop
* stockreportt():displays stock report of tablet

### 2.2.6 Manipulators

* Manipulators are operators used in C++ for formatting output. The data is manipulated by the programmer’s choice of display.
* In this C++ tutorial, you will learn what a manipulator is, endl manipulator, setw manipulator, setfill manipulator and setprecision manipulator are all explained along with syntax and examples.[13]

### 2.2.7 File Handling

In C++, files are mainly dealt by using three classes fstream, ifstream, ofstream available in fstream headerfile.File Handling concept in C++ language is used for store a data permanently in computer. Using file handling we can store our data in Secondary memory (Hard disk).

**ofstream:** Stream class to write on files  
**ifstream:** Stream class to read from files  
**fstream:** Stream class to both read and write from/to files.[14]

File used in our program:

* earphones
* laptop
* tablet
* mobile
* account
* userinfo
* sold

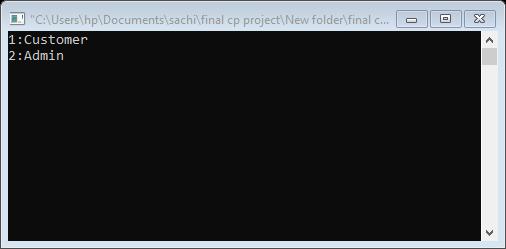
### 2.2.8 Static data members

A static member is shared by all objects of the class. All static data is initialized to zero when the first object is created, if no other initialization is present. We can't put it in the class definition but it can be initialized outside the class as done in the following example by redeclaring the static variable, using the scope resolution operator **::** to identify which class it belongs to.[15]

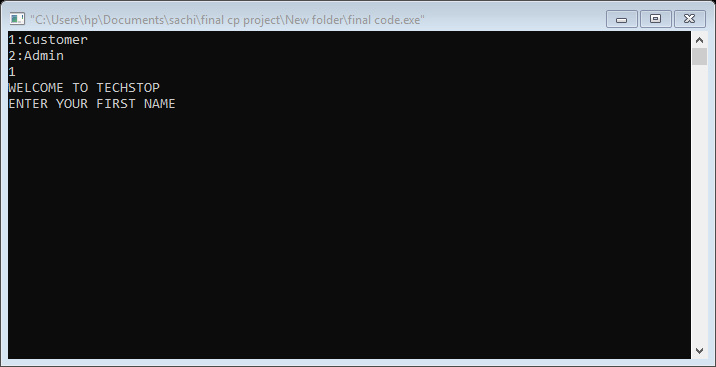
Static members used: amt

# 3. SIMULATIONS & RESULTS

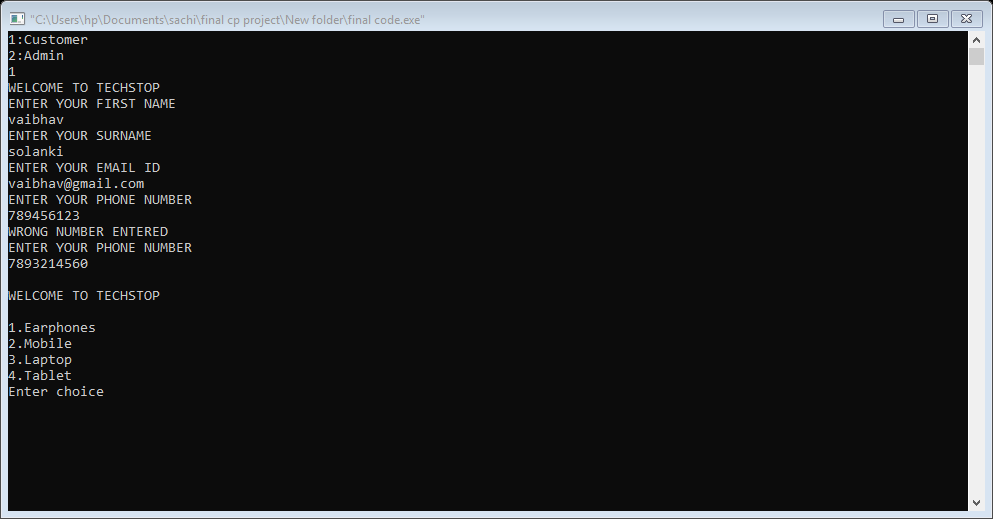
## 3.1 LOGIN AS USER

****

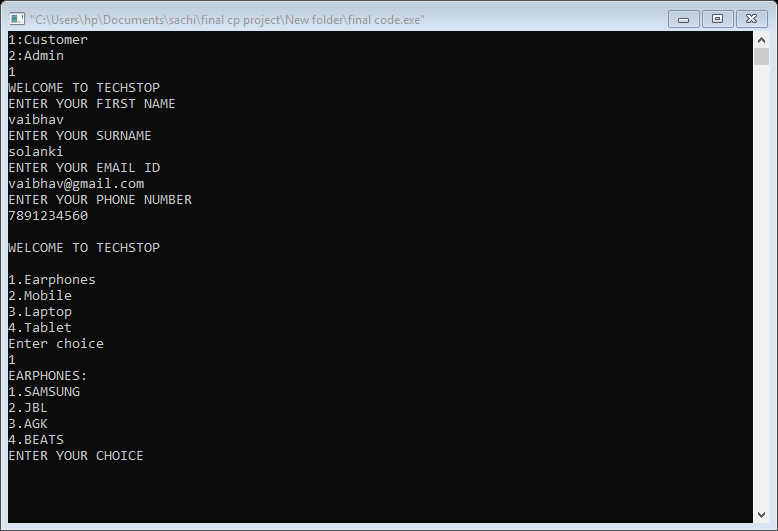
**Figure 3.1.1:** Login page

****

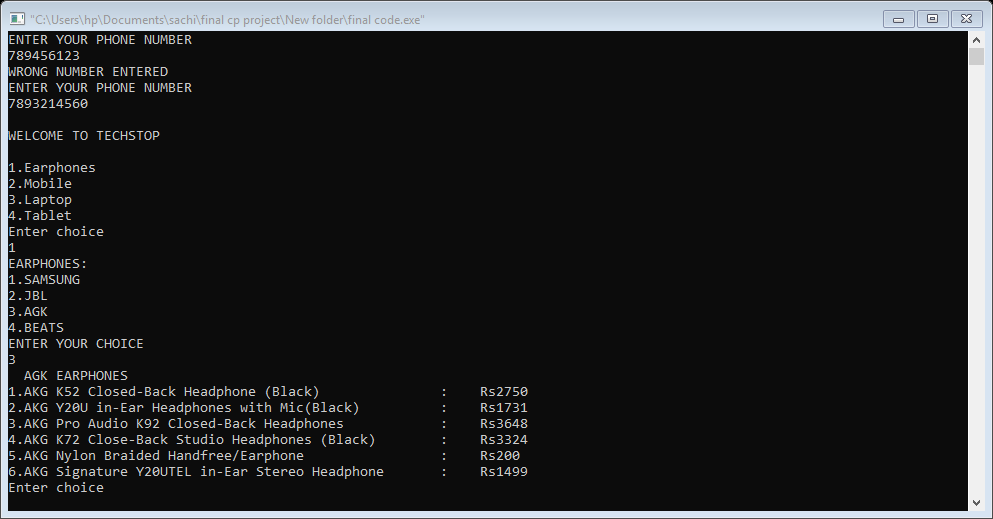
**Figure 3.1.2:** Accept customer’s personal details

****

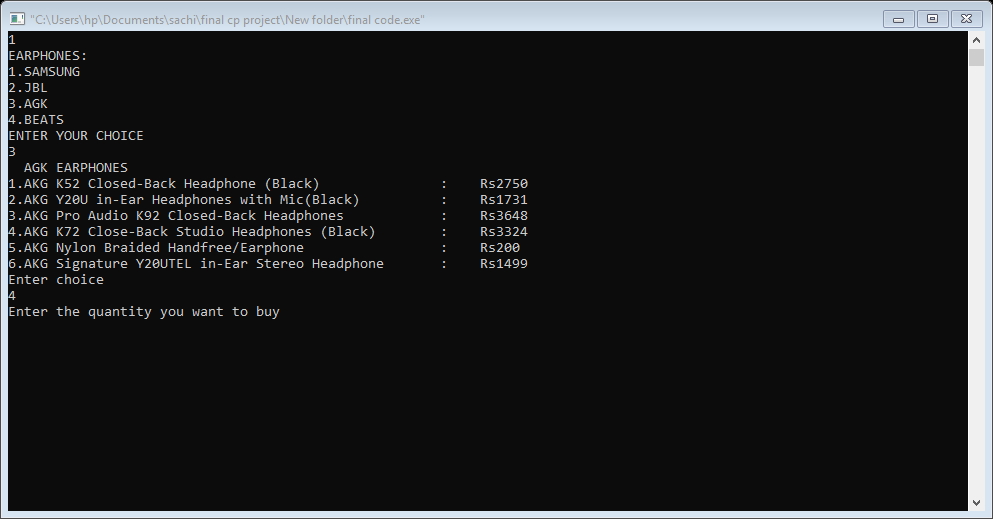
**Figure 3.1.3:** Entering user details and displaying options of gadgets available

****

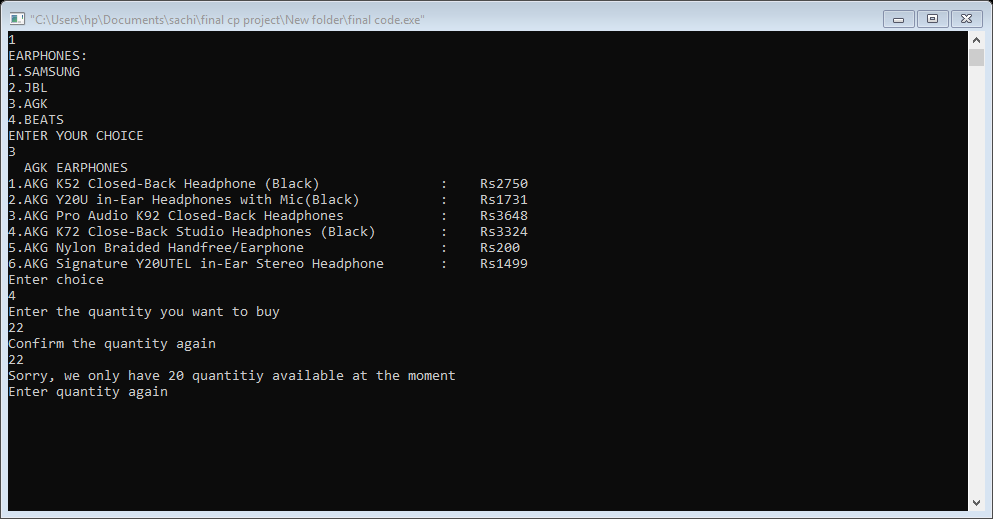
**Figure 3.1.4:** Choosing earphones and displaying the companies available



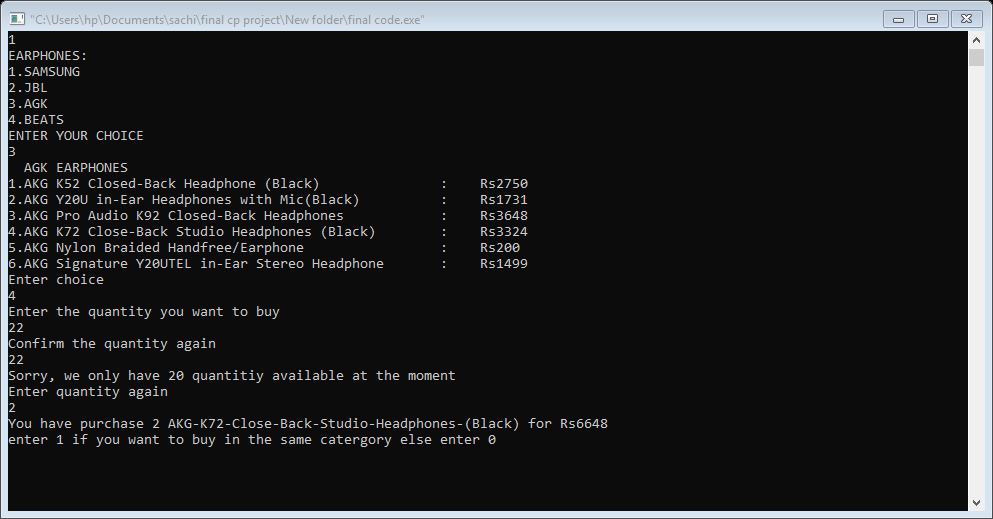
**Figure 3.1.5:** Choosing AGK Company and displaying the models available

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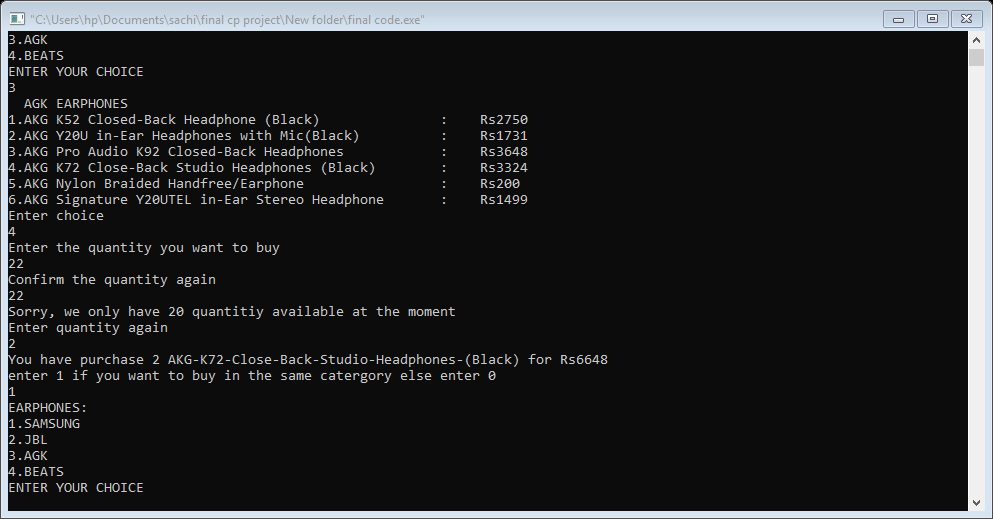
**Figure 3.1.6:** Choosing the model you like



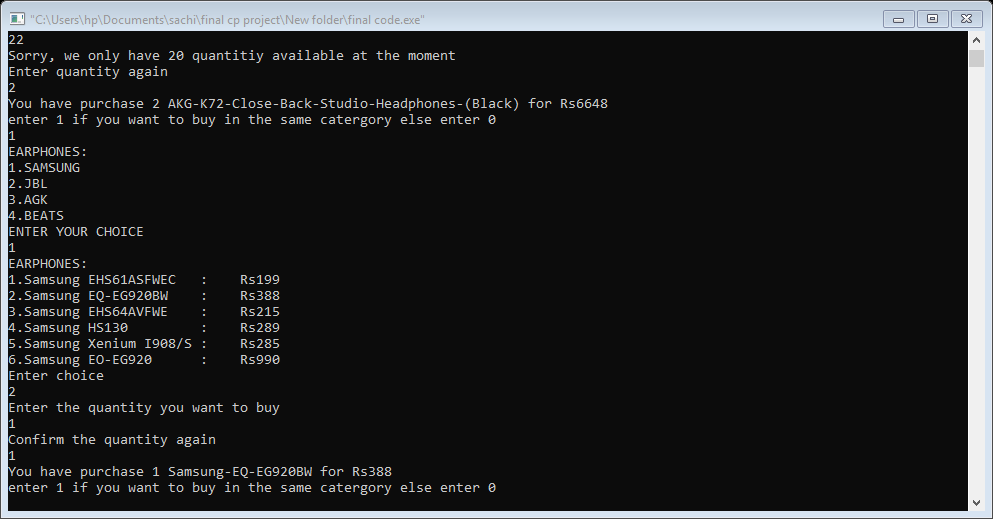
**Figure 3.1.7:** Entering the quantity you want to buy and display if not available

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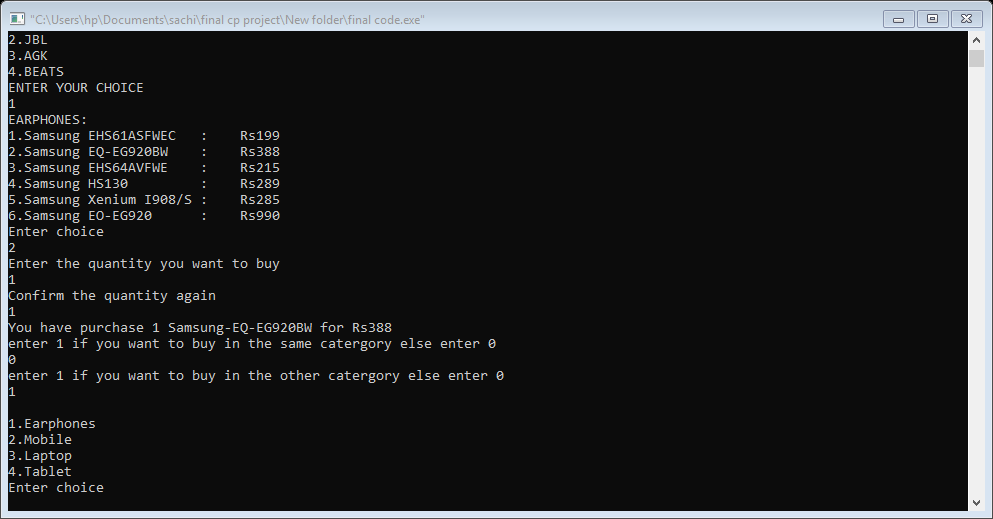
**Figure 3.1.8:** Entering the quantity again and displaying the product and quantity purchased



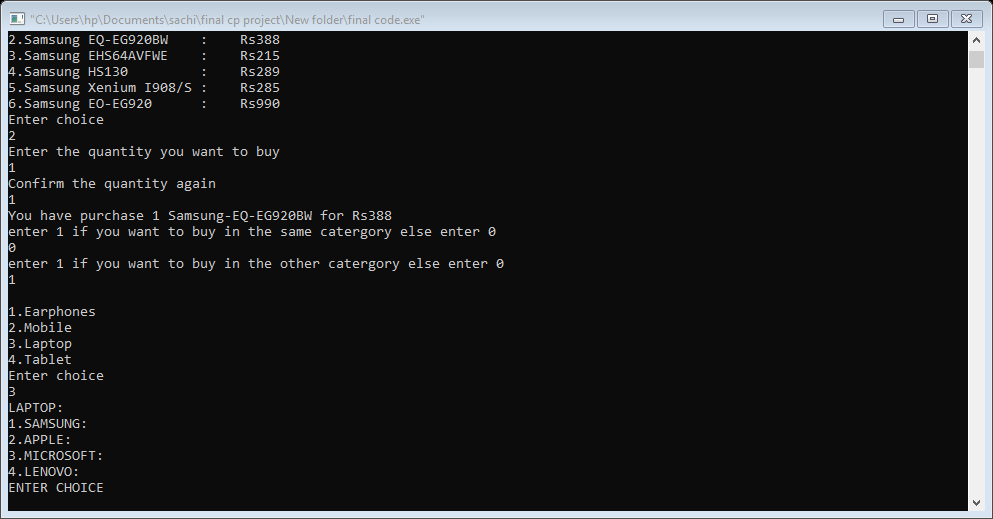
**Figure 3.1.9:** Entering 1 to buy in the same category i.e. earphones. You can buy from any company with the same procedure shown above.



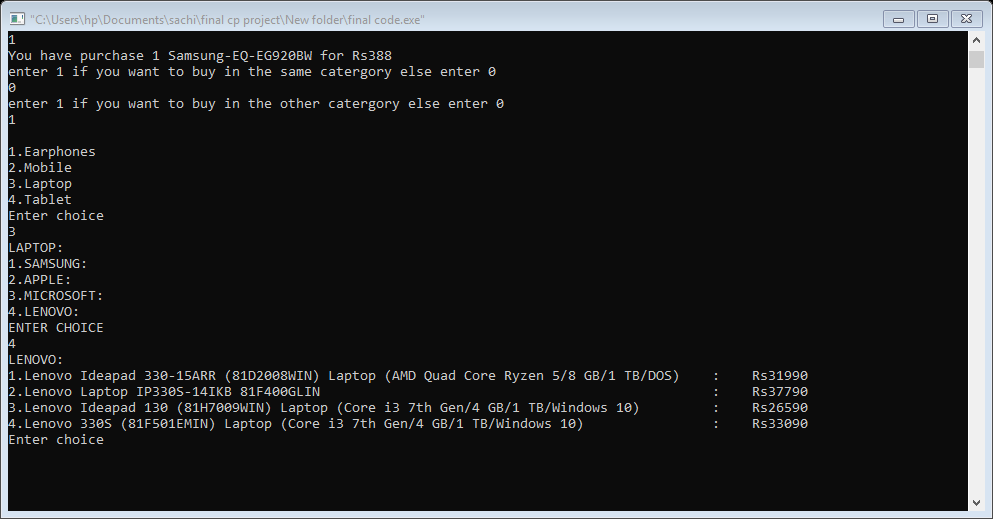
**Figure 3.1.10:** Choosing Samsung Company, entering the model to buy as well as its quantity & displaying the product purchased

****

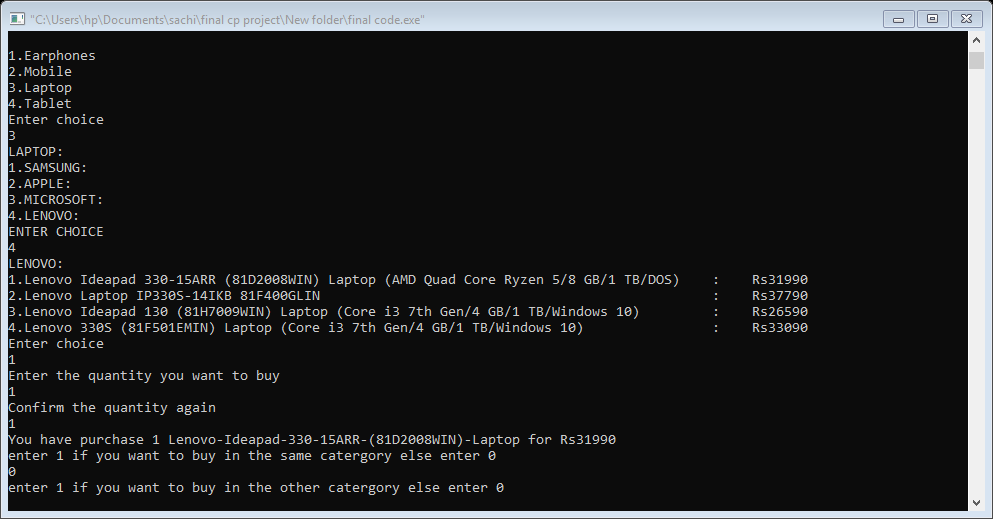
**Figure 3.1.11:** Entering 1 to buy other gadget. (same procedure as above)



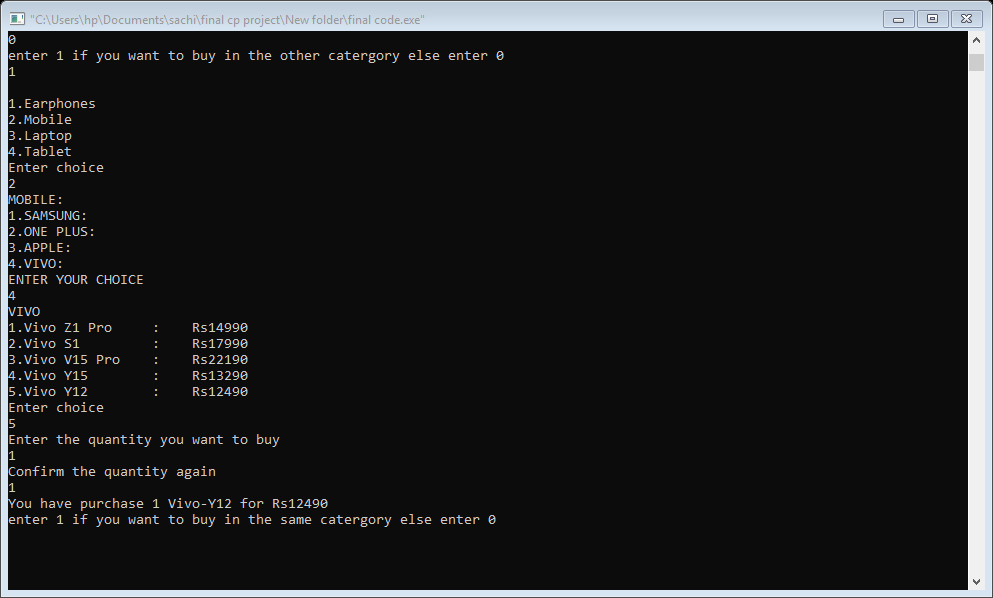
**Figure 3.1.12:** Choosing laptops and displaying the companies available

****

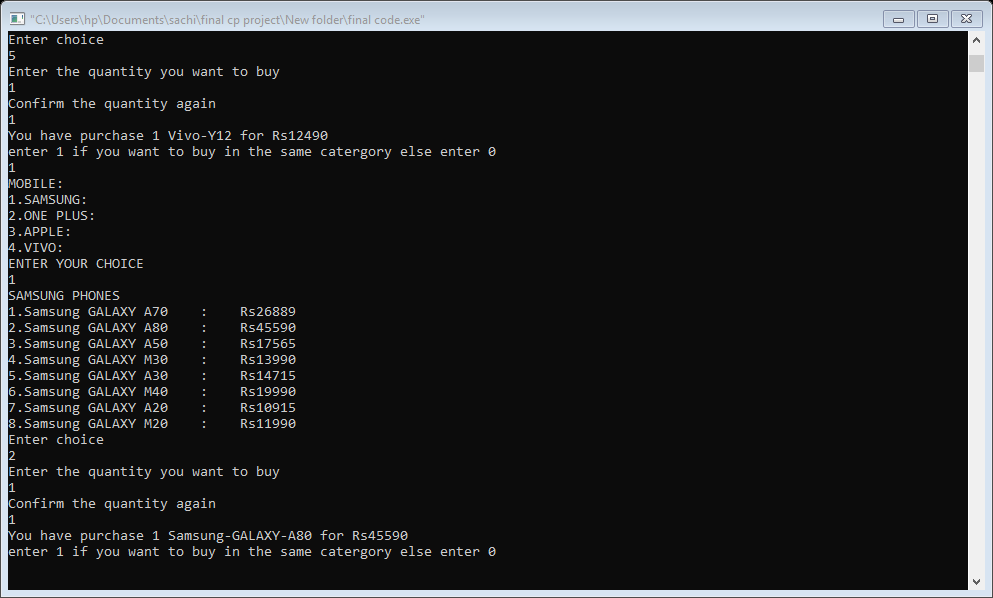
**Figure 3.1.13:** Choosing the model you like

****

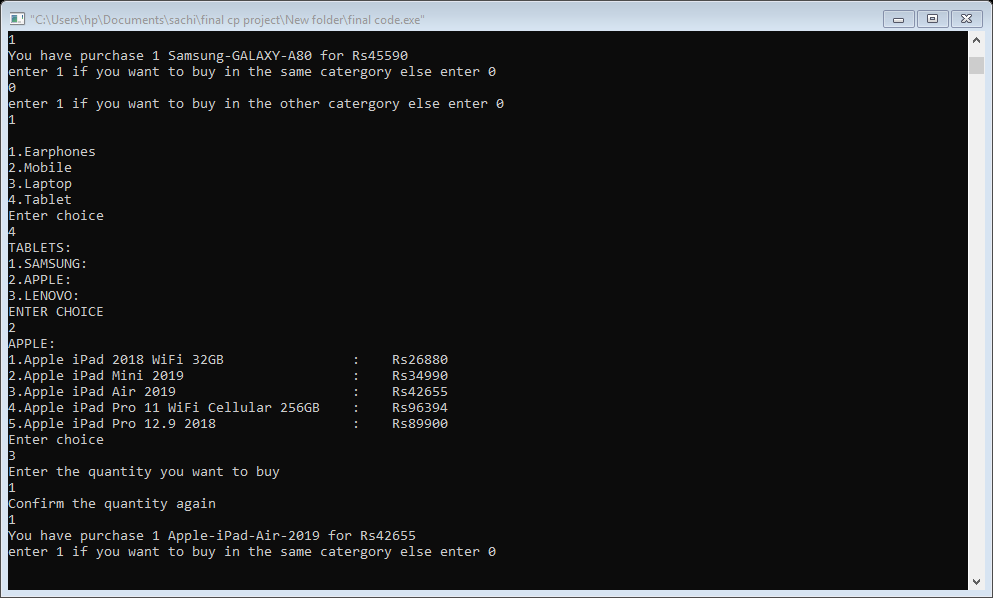
**Figure 3.1.14:** Entering the model to buy as well as its quantity & displaying the product purchased

****

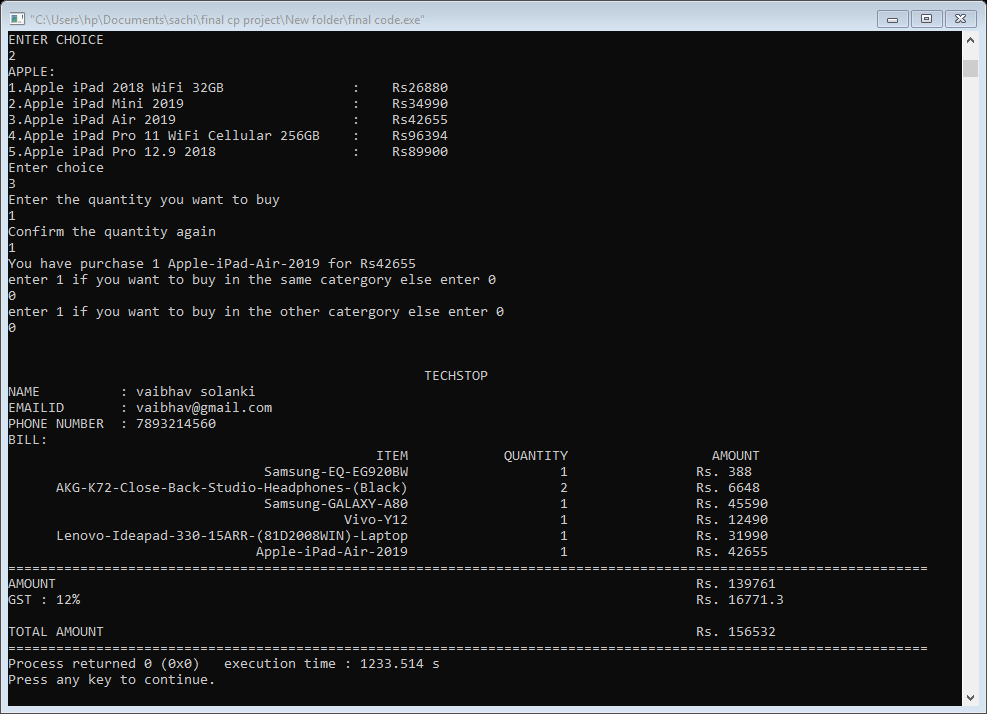
**Figure 3.1.15:** Continuing the same procedure to buy mobile of Vivo Company



**Figure 3.1.16:** Continuing the same procedure to buy mobile of Samsung Company

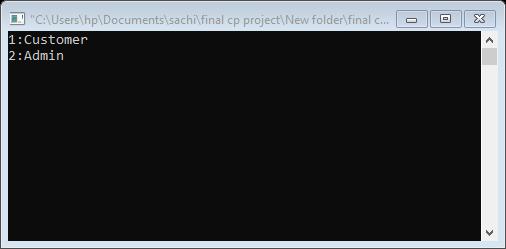


**Figure 3.1.17:** Continuing the same procedure to buy tablet of Apple Company

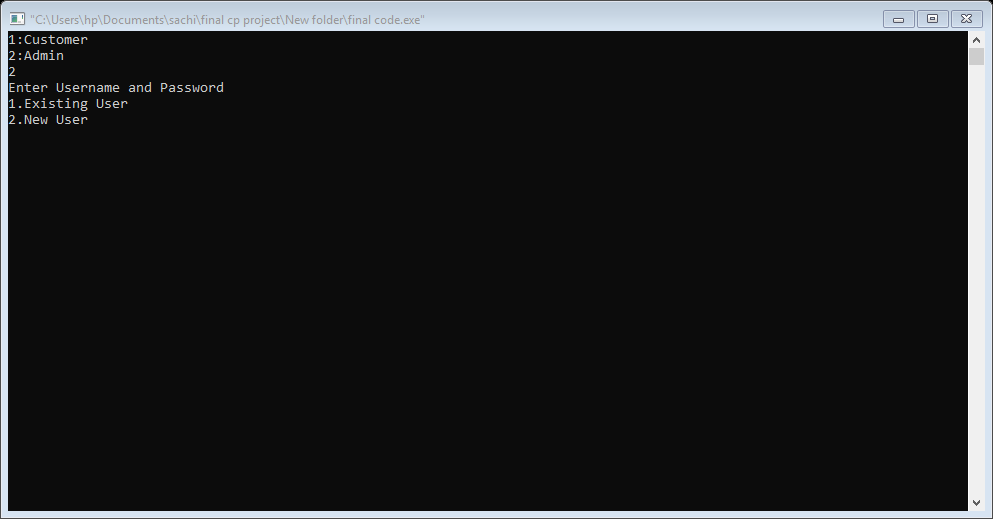


**Figure 3.1.18:** Adding GST and generating bill

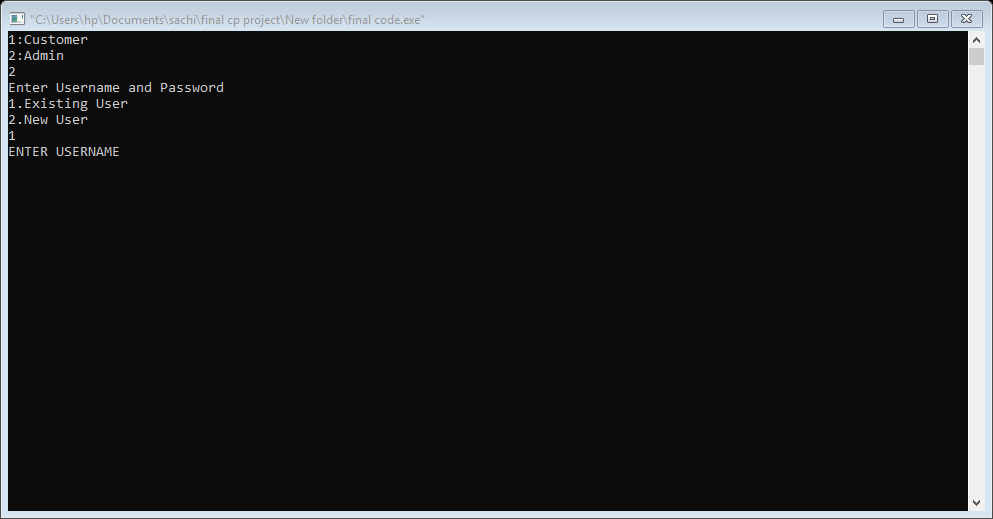
## 3.2 LOGIN AS ADMIN

****

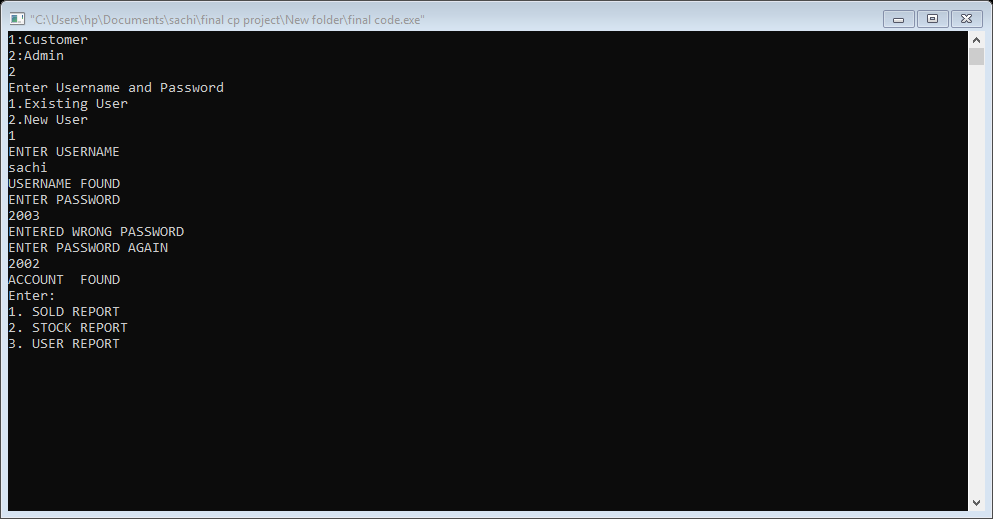
**Figure 3.2.1:** Login page



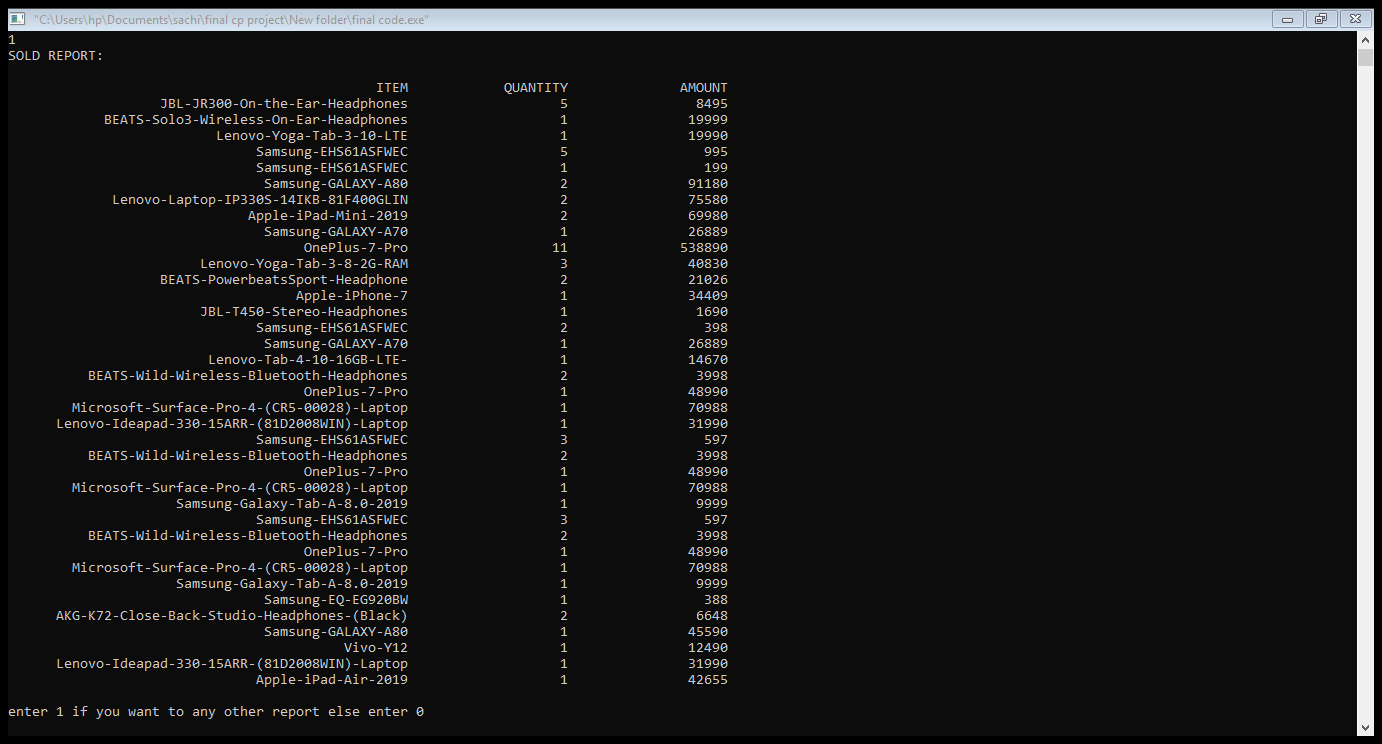
**Figure 3.2.2:** Login or create a new account for a new admin



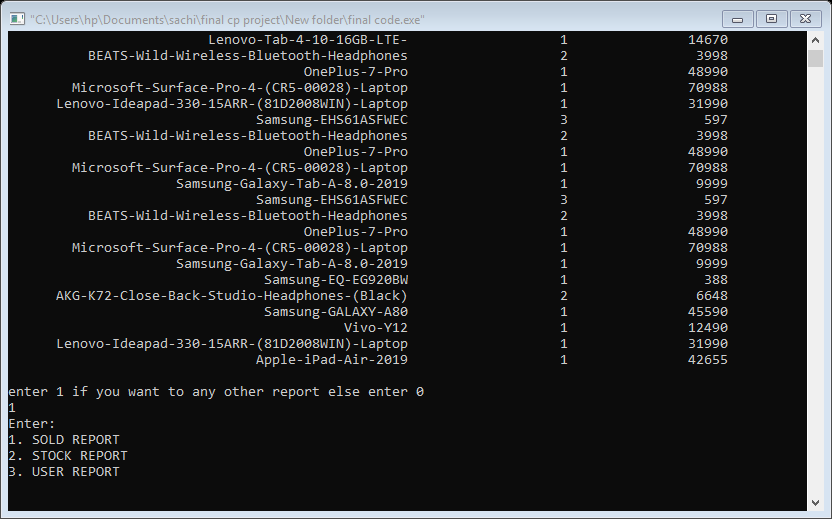
**Figure 3.2.3:** Logging in as existing user



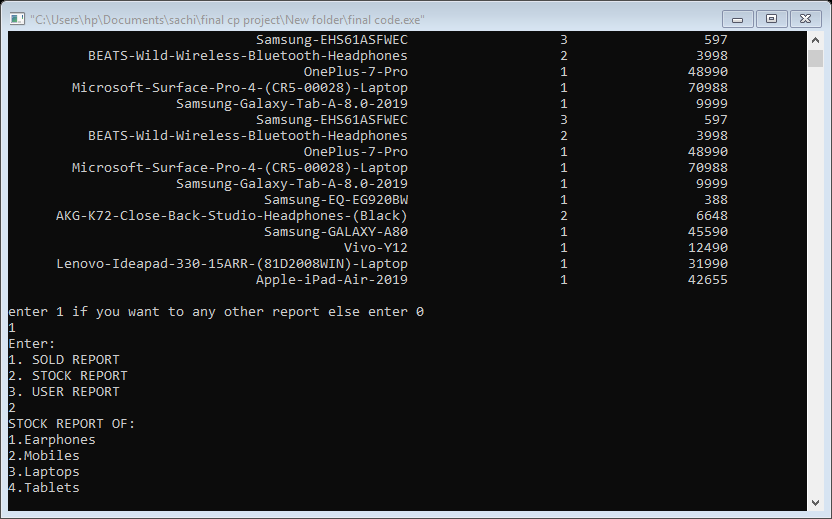
**Figure 3.2.4:** Entering username and password & ask options of reports



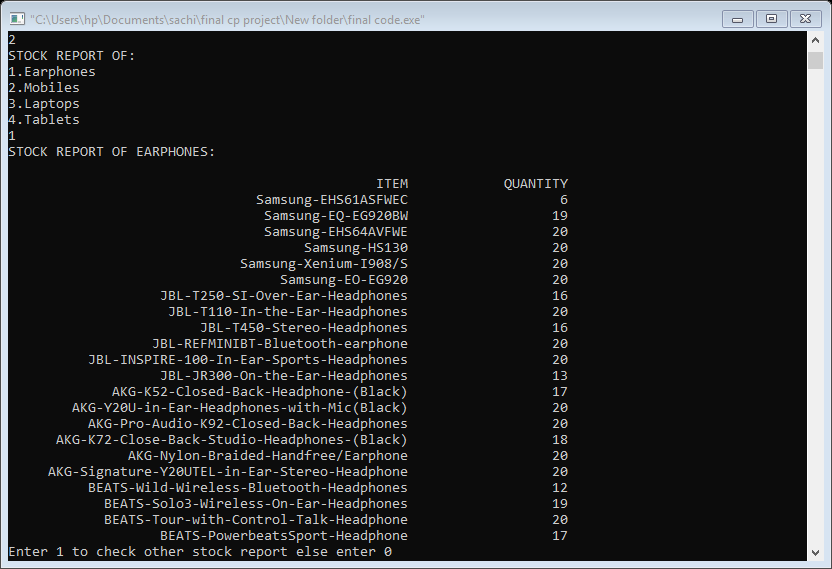
**Figure 3.2.5:** Entering 1 to check sold report



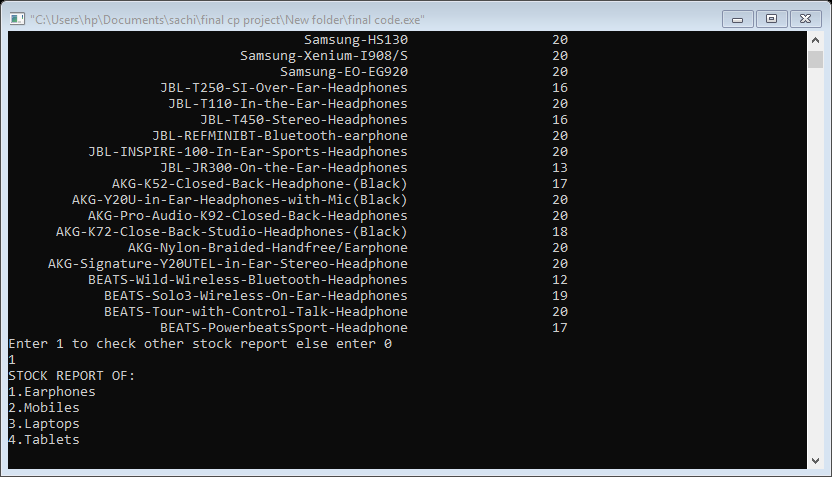
**Figure 3.2.6:** Entering 1 to check other reports



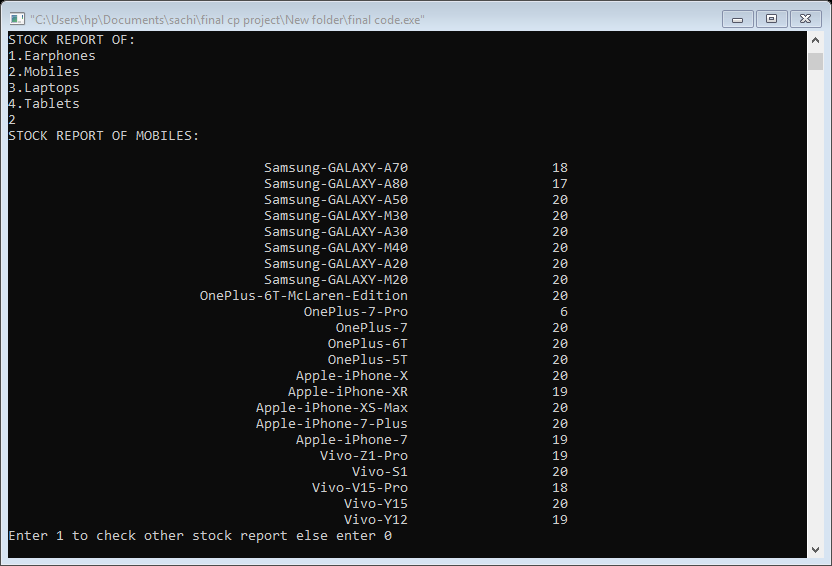
**Figure 3.2.7:** Check stock reports of different gadgets



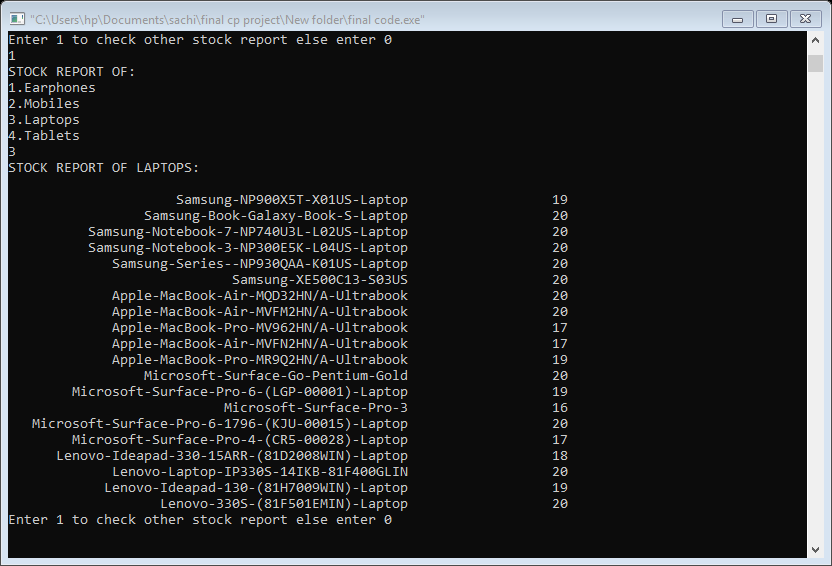
**Figure 3.2.8:** Stock report of earphones



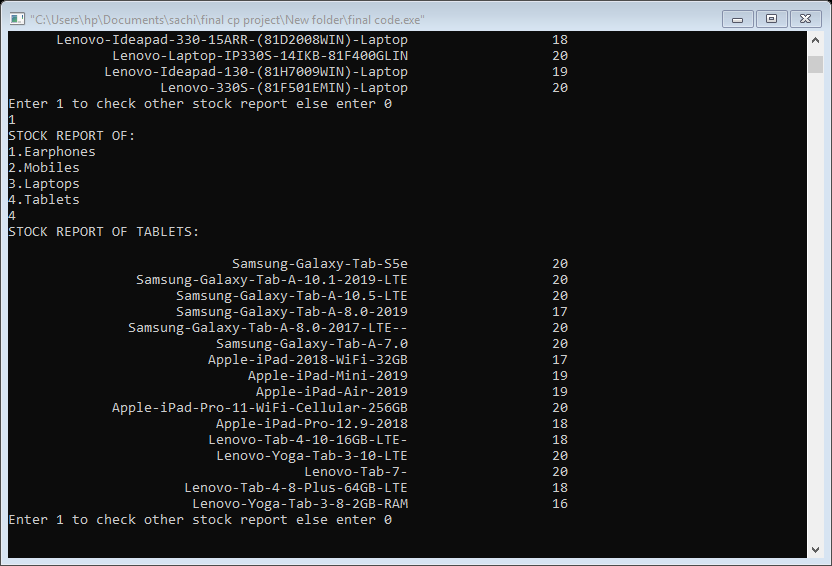
**Figure 3.2.9:** Entering one to check stock report of other gadgets



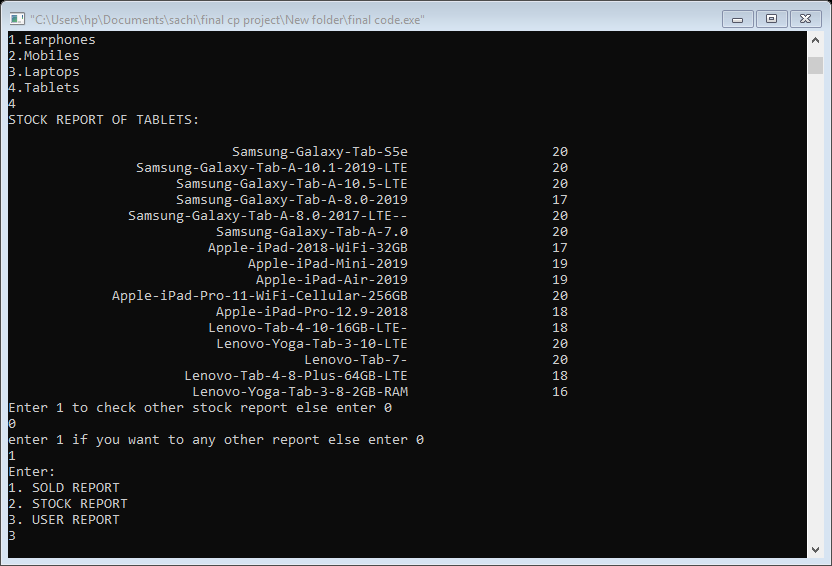
**Figure 3.2.10:** Stock report of mobiles



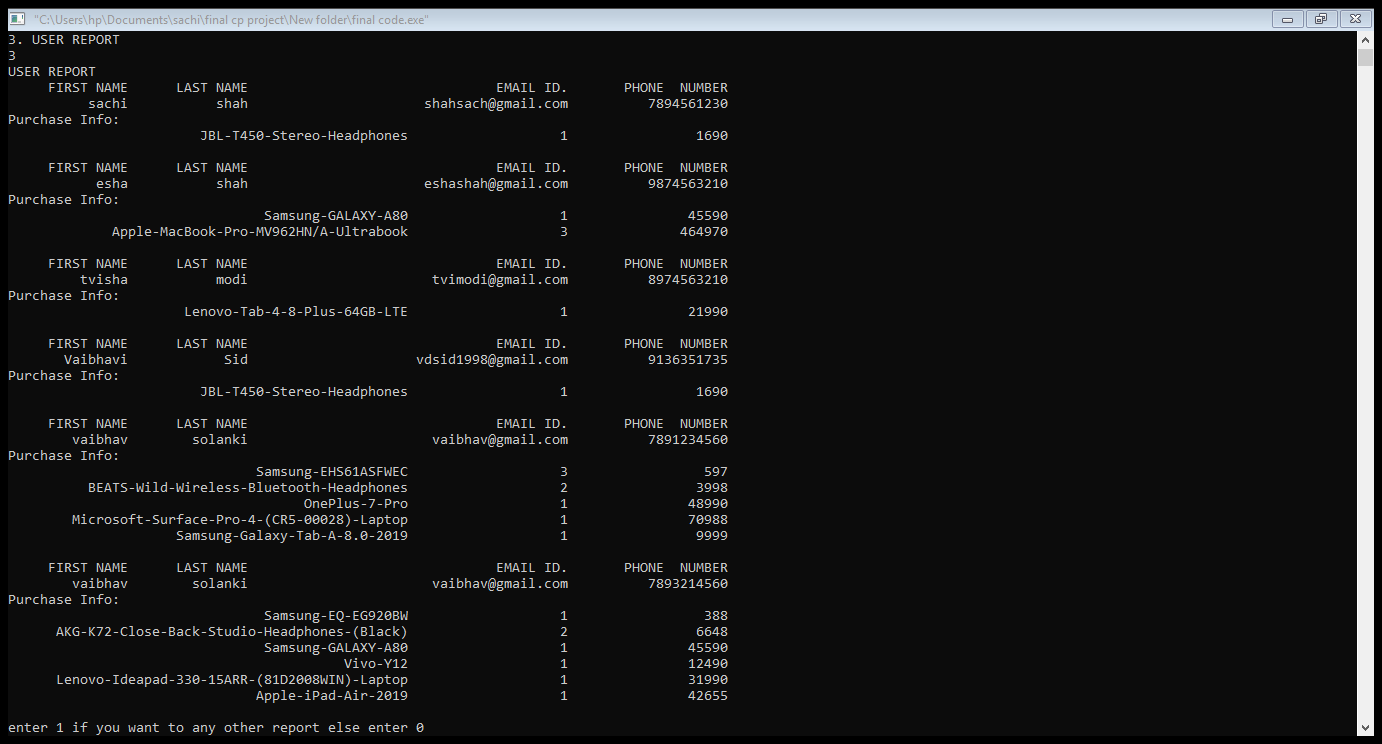
**Figure 3.2.11:** Stock report of laptops



**Figure 3.2.12:** Stock report of tablets



**Figure 3.2.13:** Entering 3 to check user report



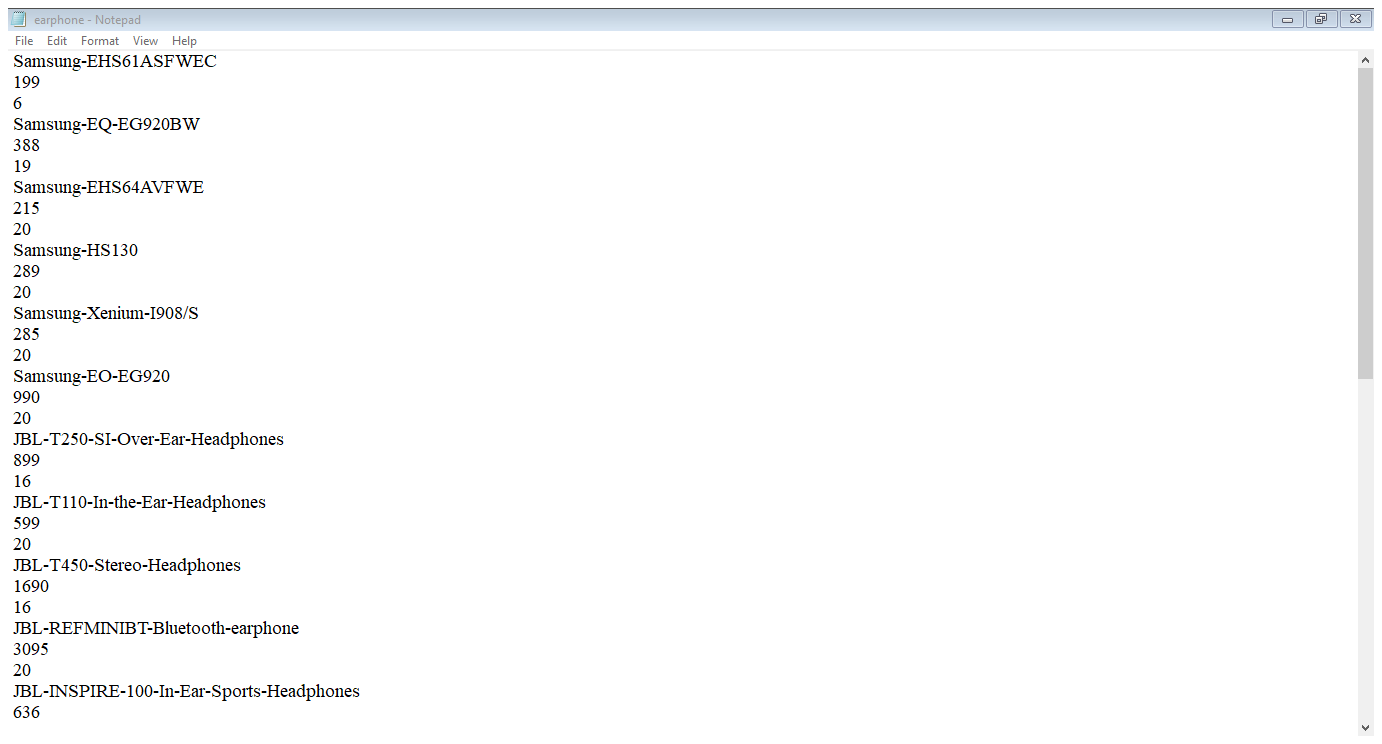
**Figure 3.2.14:** User report

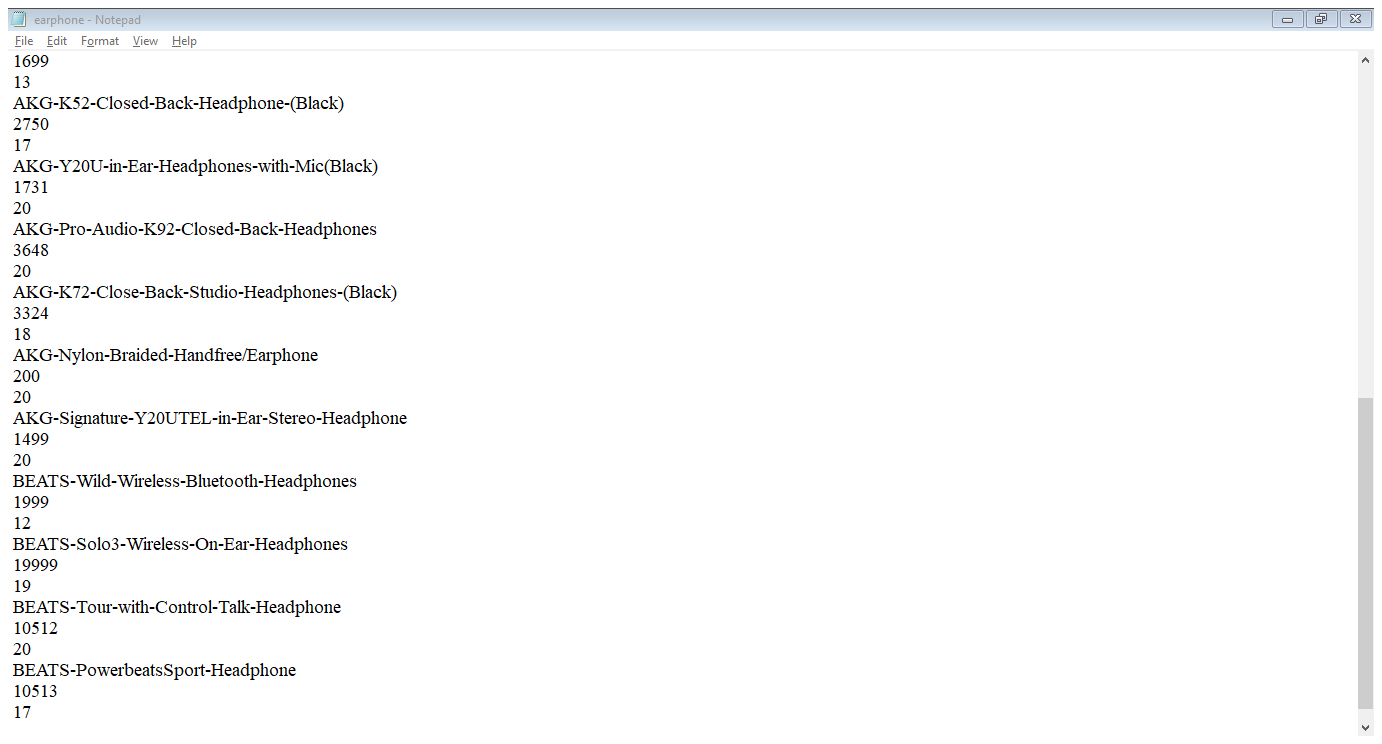
## 3.3 FILES

Things in our program are read from the file and sent to a file to store things.

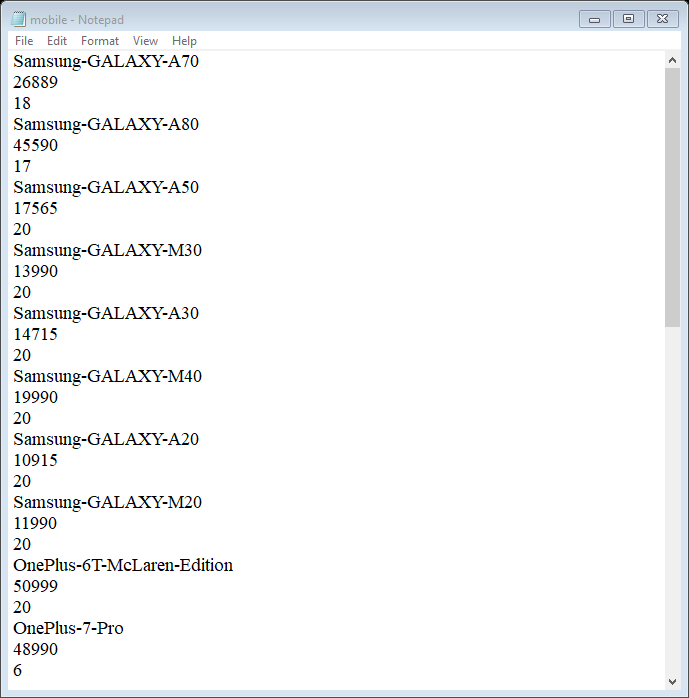
**Table 3.3.1:** Files used

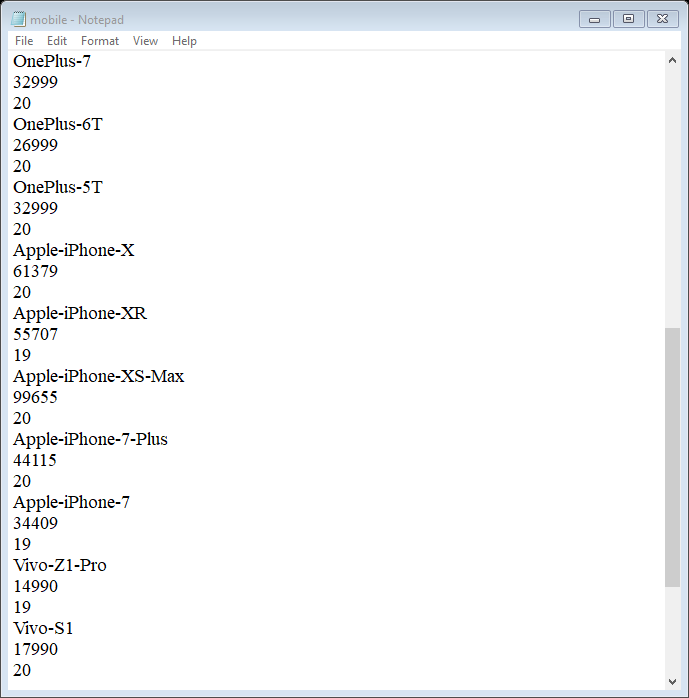
|  |  |  |
| --- | --- | --- |
| SR. NO. | FILE NAME | USE IN PROGRAM |
| 1. | Earphone | The system accepts the name, price, and quantity available of all earphones and system sends back all the details to the file once the bill is generated with deducted quantity of the model purchased. |
| 2. | Mobile | The system accepts the name, price, and quantity available of all mobiles and system sends back all the details to the file once the bill is generated with deducted quantity of the model purchased. |
| 3. | Laptop | The system accepts the name, price, and quantity available of all laptops and system sends back all the details to the file once the bill is generated with deducted quantity of the model purchased. |
| 4. | Tablet | The system accepts the name, price, and quantity available of all tablets and system sends back all the details to the file once the bill is generated with deducted quantity of the model purchased. |
| 5. | Sold | The system sends the product name, quantity & price of the item sold to this file.  The system reads everything from this file when the admin asks for sold report |
| 6. | Account | When a new admin creates an account, the username & password of that admin gets stored in this file.  When an existing user wants to access different reports, the username and password entered are read and checked from this file. |
| 7. | Userinfo | All the personal details and the purchase info of the customer is stored here & it is accessed by the admin through this file. |



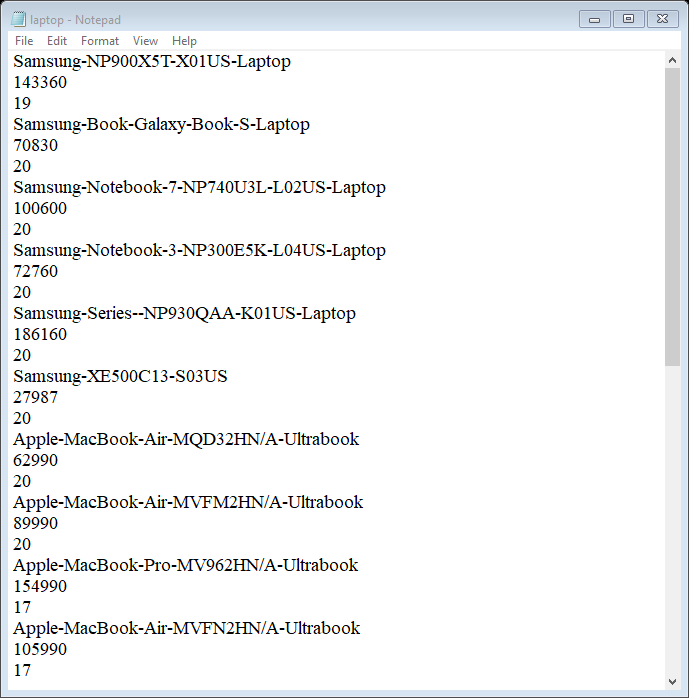


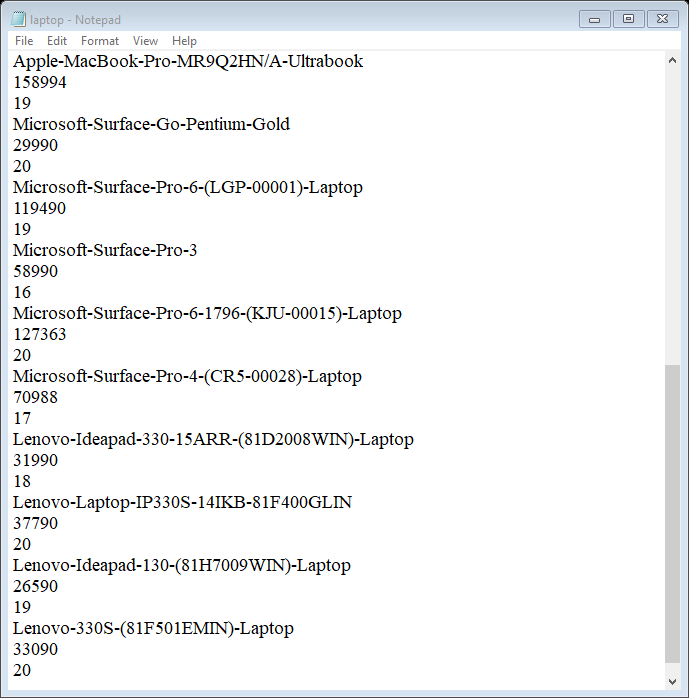
**Figure 3**.**3.1:** Earphone file



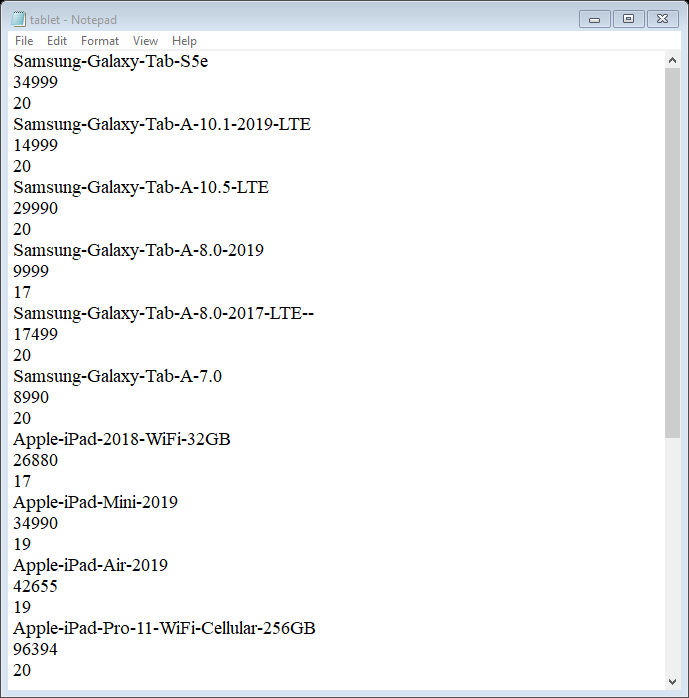


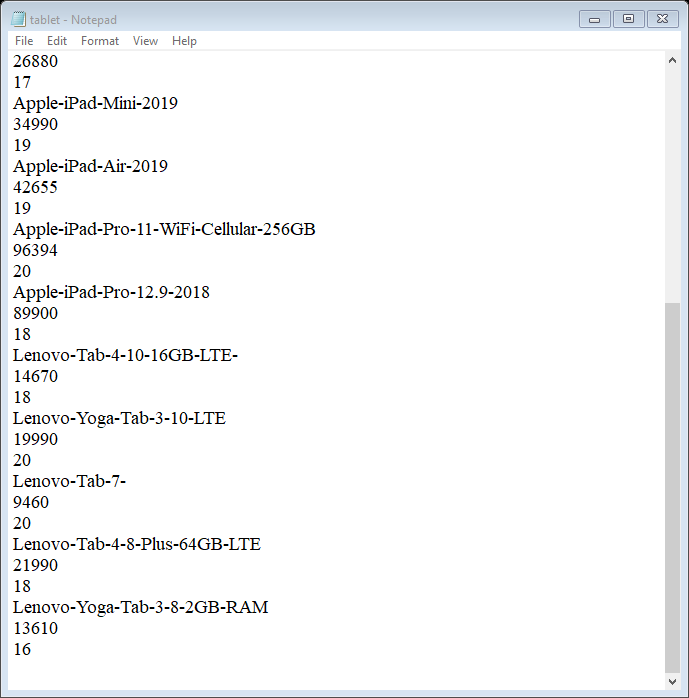
**Figure 3**.**3.2:** Mobile file



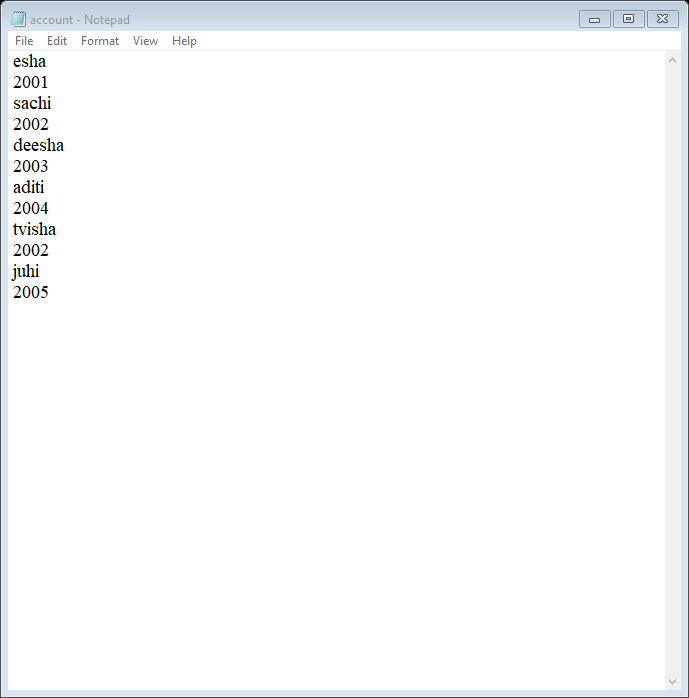


**Figure 3**.**3.3:** Laptop file

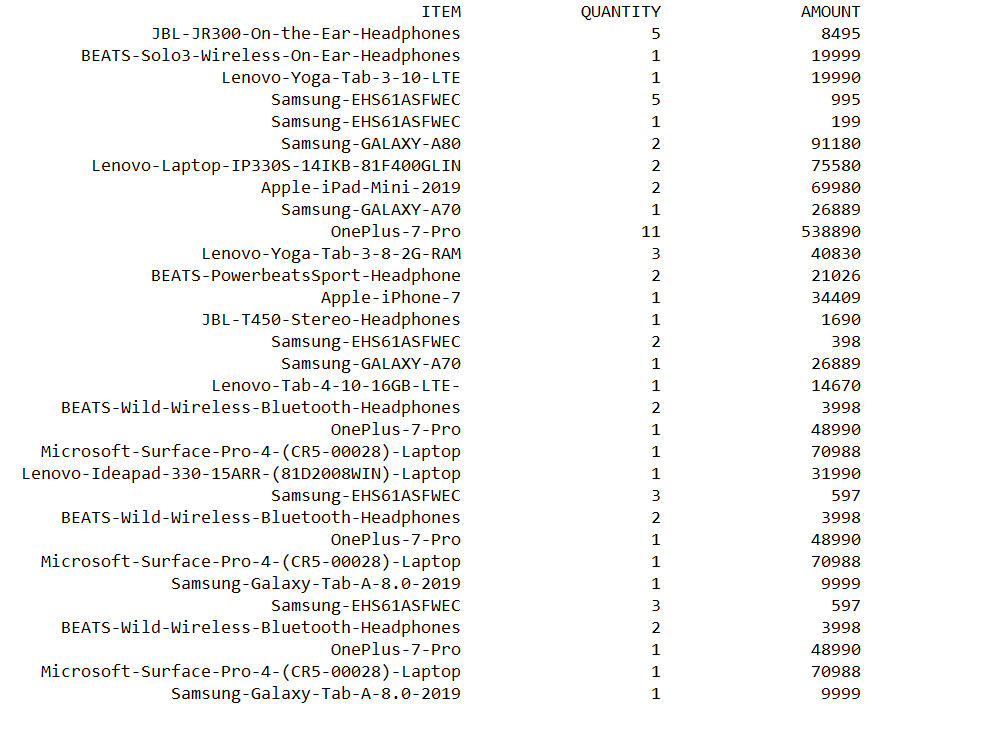




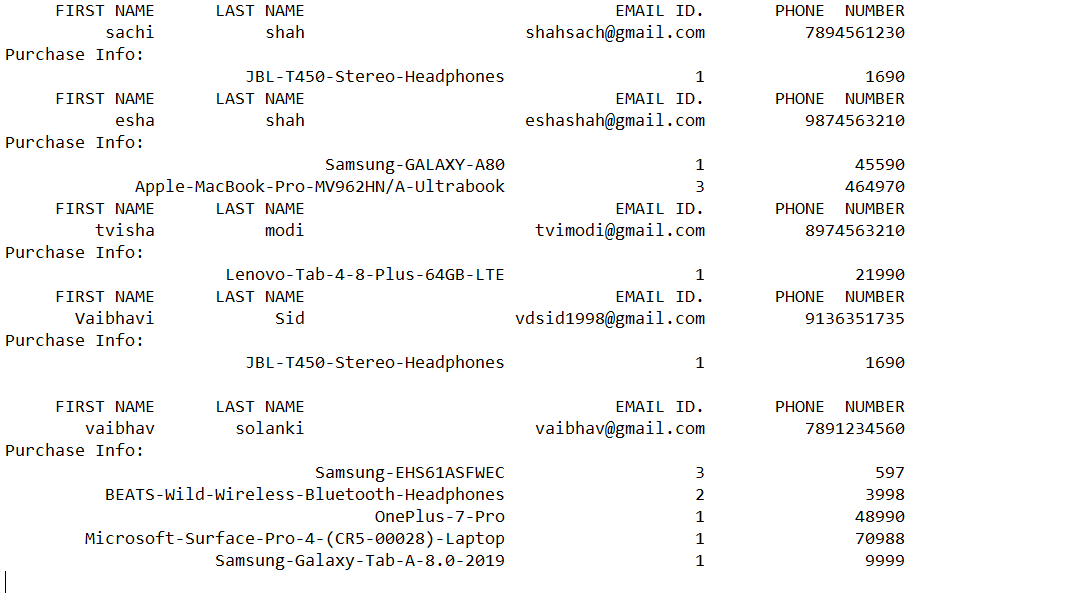
**Figure 3**.**3.4:** Tablet file



**Figure 3**.**3.5:** Account file



**Figure 3**.**3.6:** Sold file



**Figure 3**.**3.7:** Userinfo file

# 4. CONCLUSION

Our billing system TECHSTOP is a system that receives personal information of the user, groups this information for specific accounts or customer and stores it in a file to maintain records, provides various electronic option for the customer, creates report for management and records payments made to the customer.

Some advantages of our system is that it makes billing fast and simple, reduces errors and disputes , reduces manual work, ,improves management and records, enhances transparency ,invoicing calculations are automated and standardized .this makes our system look more professional and well organized to the customers.

# 5. FUTURE WORK

TechStop is the system that focuses on mainly billing, generating reports

And essential features to carry out these functions.

But it may lack some features that are required for becoming an ideal billing and invoicing system. We would like to develop this system into an app/website by implementing these features.

These features include adding more products to provide a wide range of options, create an account for a user, provide with schemes beneficial for user.

Our future work also involves modification of the list of product selected by the customer, addition of new stock and products by the admin include a wallet system for an existing user.

Also develop a functionality so as to enable the user to search a product based on criteria like most sold, a range of price etc.

In future we wish to work on this system and add more features and functionality thereby making it an efficient and a better system.

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# APPENDIX A

#include<iostream>

#include<iomanip>

#include<string>

#include<fstream>

#include<cstring>

using namespace std;

class electronics

{

ofstream output;

ofstream outinfo;

string name,sname,email;

long long int number;

string pn[100];

int pp[100];

int pq[100];

int tpq[100];

static long double amt;

double price;

public:

electronics()

{

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

{

pq[i]=0;

tpq[i]=0;

}

}

void prodis(int i)

{

cout<<"Enter the quantity you want to buy\n";

cin>>pq[i];

cout<<"Confirm the quantity again"<<endl;

cin>>pq[i];

if(pq[i]>tpq[i])

{

cout<<"Sorry, we only have "<<tpq[i]<<" quantitiy available at the moment"<<endl;

cout<<"Enter quantity again"<<endl;

cin>>pq[i];

}

cout<<"You have purchase "<<pq[i]<<" "<<pn[i]<<" for Rs"<<pp[i]\*pq[i]<<"\n";

}

void info()

{

outinfo.open("userinfo.txt",ios::app);

cout<<"WELCOME TO TECHSTOP"<<endl;

cout<<"ENTER YOUR FIRST NAME"<<endl;

cin>>name;

cout<<"ENTER YOUR SURNAME"<<endl;

cin>>sname;

cout<<"ENTER YOUR EMAIL ID"<<endl;

cin>>email;

reenter:

cout<<"ENTER YOUR PHONE NUMBER"<<endl;

cin>>number;

long long int w;

w=number/1000000000;

if(w>10||w==0)

{

cout<<"WRONG NUMBER ENTERED"<<endl;

goto reenter;

}

outinfo<<setw(15)<<"FIRST NAME"<<setw(15)<<"LAST NAME"<<setw(40)<<"EMAIL ID."<<setw(20)<<"PHONE NUMBER"<<endl;

outinfo<<setw(15)<<name<<setw(15)<<sname<<setw(40)<<email<<setw(20)<<number<<endl;

outinfo<<"Purchase Info:"<<endl;

outinfo.close();

}

void userdisplay()

{

cout<<"NAME : "<<name<<" "<<sname<<endl;

cout<<"EMAILID : "<<email<<endl;

cout<<"PHONE NUMBER : "<<number<<endl;

}

void earphones()

{

int a=0;

ifstream inearphones;

inearphones.open("earphone.txt",ios::in);

while(!inearphones.eof())

{

inearphones>>pn[a];

inearphones>>pp[a];

inearphones>>tpq[a];

a++;

}

inearphones.close();

int j;

int ch1;

int ch;

do

{

cout<<"EARPHONES:\n";

cout<<"1.SAMSUNG\n";

cout<<"2.JBL\n";

cout<<"3.AGK\n";

cout<<"4.BEATS\n";

cout<<"ENTER YOUR CHOICE\n";

cin>>ch;

switch (ch)

{

case 1:

cout<<"EARPHONES:\n";

cout<<"1.Samsung EHS61ASFWEC : Rs199\n";

cout<<"2.Samsung EQ-EG920BW : Rs388\n";

cout<<"3.Samsung EHS64AVFWE : Rs215\n";

cout<<"4.Samsung HS130 : Rs289\n";

cout<<"5.Samsung Xenium I908/S : Rs285\n";

cout<<"6.Samsung EO-EG920 : Rs990\n";

cout<<"Enter choice\n";

cin>>ch1;

switch(ch1)

{

case 1:prodis(0);

break;

case 2:prodis(1);

break;

case 3:prodis(2);

break;

case 4:prodis(3);

break;

case 5:prodis(4);

break;

case 6:prodis(5);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

case 2:

cout<<" JBL EARPHONES\n";

cout<<"1.JBL T250 SI Over Ear Headphones : Rs899\n";

cout<<"2.JBL T110 In the Ear Headphones : Rs599\n";

cout<<"3.JBL T450 Stereo Headphones : Rs1690\n";

cout<<"4.JBL REFMINIBT Bluetooth earphone : Rs3095\n";

cout<<"5.JBL INSPIRE 100 In-Ear Sports Headphones : Rs636\n";

cout<<"6.JBL JR300 On the Ear Headphones : Rs1699\n";

cout<<"Enter choice\n";

cin>>ch1;

switch(ch1)

{

case 1:prodis(6);

break;

case 2:prodis(7);

break;

case 3:prodis(8);

break;

case 4:prodis(9);

break;

case 5:prodis(10);

break;

case 6:prodis(11);

break;

default:cout<<"WRONG CHOICE";

}

break;

case 3:

cout<<" AGK EARPHONES\n";

cout<<"1.AKG K52 Closed-Back Headphone (Black) : Rs2750\n";

cout<<"2.AKG Y20U in-Ear Headphones with Mic(Black) : Rs1731\n";

cout<<"3.AKG Pro Audio K92 Closed-Back Headphones : Rs3648\n";

cout<<"4.AKG K72 Close-Back Studio Headphones (Black) : Rs3324\n";

cout<<"5.AKG Nylon Braided Handfree/Earphone : Rs200\n";

cout<<"6.AKG Signature Y20UTEL in-Ear Stereo Headphone : Rs1499\n";

cout<<"Enter choice\n";

cin>>ch1;

switch(ch1)

{

case 1:prodis(12);

break;

case 2:prodis(13);

break;

case 3:prodis(14);

break;

case 4:prodis(15);

break;

case 5:prodis(16);

break;

case 6:prodis(17);

break;

default:cout<<"WRONG CHOICE";

}

break;

case 4:

cout<<" BEATS EARPHONES\n";

cout<<"1.BEATS Wild Wireless Bluetooth Headphones : Rs1999\n";

cout<<"2.BEATS Solo3 Wireless On-Ear Headphones : Rs19999\n";

cout<<"3.BEATS Tour with Control Talk Headphone : Rs10512\n";

cout<<"4.BEATS PowerbeatsSport Headphone : Rs10513\n";

cout<<"Enter choice\n";

cin>>ch1;

switch(ch1)

{

case 1:prodis(18);

break;

case 2:prodis(19);

break;

case 3:prodis(20);

break;

case 4:prodis(21);

break;

default:cout<<"WRONG CHOICE";

}

break;

default:cout<<"WRONG CHOICE";

}

cout<<"enter 1 if you want to buy in the same catergory else enter 0\n";

cin>>j;

}while(j==1);

calculate();

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

{

if(pq[i]>0)

tpq[i]=tpq[i]-pq[i];

}

}

void mobile()

{

int a=0;

ifstream inmobile;

inmobile.open("mobile.txt",ios::in);

while(!inmobile.eof())

{

inmobile>>pn[a];

inmobile>>pp[a];

inmobile>>tpq[a];

a++;

}

inmobile.close();

int j;

int ch2;

int ch;

do

{

cout<<"MOBILE:\n";

cout<<"1.SAMSUNG:\n";

cout<<"2.ONE PLUS:\n";

cout<<"3.APPLE:\n";

cout<<"4.VIVO:\n";

cout<<"ENTER YOUR CHOICE\n";

cin>>ch;

switch(ch)

{

case 1:

cout<<"SAMSUNG PHONES\n";

cout<<"1.Samsung GALAXY A70 : Rs26889\n";

cout<<"2.Samsung GALAXY A80 : Rs45590\n";

cout<<"3.Samsung GALAXY A50 : Rs17565\n";

cout<<"4.Samsung GALAXY M30 : Rs13990\n";

cout<<"5.Samsung GALAXY A30 : Rs14715\n";

cout<<"6.Samsung GALAXY M40 : Rs19990\n";

cout<<"7.Samsung GALAXY A20 : Rs10915\n";

cout<<"8.Samsung GALAXY M20 : Rs11990\n";

cout<<"Enter choice\n";

cin>>ch2;

switch(ch2)

{

case 1:prodis(0);

break;

case 2:prodis(1);

break;

case 3:prodis(2);

break;

case 4:prodis(3);

break;

case 5:prodis(4);

break;

case 6:prodis(5);

break;

case 7:prodis(6);

break;

case 8:prodis(7);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

case 2:

cout<<"ONEPLUS\n";

cout<<"1.OnePlus 6T McLaren Edition : Rs50999\n";

cout<<"2.OnePlus 7 Pro : Rs48990\n";

cout<<"3.OnePlus 7 : Rs32999\n";

cout<<"4.OnePlus 6T : Rs26999\n";

cout<<"5.OnePlus 5T : Rs32999\n";

cout<<"Enter choice\n";

cin>>ch2;

switch(ch2)

{

case 1:prodis(8);

break;

case 2:prodis(9);

break;

case 3:prodis(10);

break;

case 4:prodis(11);

break;

case 5:prodis(12);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

case 3:

cout<<"APPLE\n";

cout<<"1.Apple iPhone X : Rs61379\n";

cout<<"2.Apple iPhone XR : Rs55707\n";

cout<<"3.Apple iPhone XS Max : Rs99655\n";

cout<<"4.Apple iPhone 7 Plus : Rs44115\n";

cout<<"5.Apple iPhone 7 : Rs34409\n";

cout<<"Enter choice\n";

cin>>ch2;

switch(ch2)

{

case 1:prodis(13);

break;

case 2:prodis(14);

break;

case 3:prodis(15);

break;

case 4:prodis(16);

break;

case 5:prodis(17);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

case 4:

cout<<"VIVO\n";

cout<<"1.Vivo Z1 Pro : Rs14990\n";

cout<<"2.Vivo S1 : Rs17990\n";

cout<<"3.Vivo V15 Pro : Rs22190\n";

cout<<"4.Vivo Y15 : Rs13290\n";

cout<<"5.Vivo Y12 : Rs12490\n";

cout<<"Enter choice\n";

cin>>ch2;

switch(ch2)

{

case 1:prodis(18);

break;

case 2:prodis(19);

break;

case 3:prodis(20);

break;

case 4:prodis(21);

break;

case 5:prodis(22);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

}

cout<<"enter 1 if you want to buy in the same catergory else enter 0\n";

cin>>j;

}while(j==1);

calculate();

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

{

if(pq[i]>0)

tpq[i]=tpq[i]-pq[i];

}

}

void laptop()

{

int a=0;

ifstream inlaptop;

inlaptop.open("laptop.txt",ios::in);

while(!inlaptop.eof())

{

inlaptop>>pn[a];

inlaptop>>pp[a];

inlaptop>>tpq[a];

a++;

}

inlaptop.close();

int j;

int ch3;

int ch;

do

{

cout<<"LAPTOP:\n";

cout<<"1.SAMSUNG:\n";

cout<<"2.APPLE:\n";

cout<<"3.MICROSOFT:\n";

cout<<"4.LENOVO:\n";

cout<<"ENTER CHOICE\n";

cin>>ch;

switch(ch)

{

case 1:

cout<<".SAMSUNG:\n";

cout<<"1.Samsung NP900X5T-X01US Laptop (Core i7 8th Gen/16 GB/256 GB SSD/Windows 10/2 GB) : Rs143360\n";

cout<<"2.Samsung Book Galaxy Book S Laptop (Qualcomm Snapdragon Octa Core/8 GB/256 GB SSD/Windows 10) : Rs70830\n";

cout<<"3.Samsung Notebook 7 NP740U3L-L02US Laptop (Core i5 6th Gen/8 GB/1 TB/Windows 10) : Rs100600\n";

cout<<"4.Samsung Notebook 3 NP300E5K-L04US Laptop (Core i5 5th Gen/4 GB/1 TB/Windows 10) : Rs72760\n";

cout<<"5.Samsung Series NP930QAA-K01US Laptop (Core i7 8th Gen/8 GB/256 GB SSD/Windows 10) : Rs186160\n";

cout<<"6.Samsung XE500C13-S03US (Intel Celeron Dual Core 2GB 16GB SSD ChromeOS) : Rs27987\n";

cout<<"Enter choice\n";

cin>>ch3;

switch(ch3)

{

case 1:prodis(0);

break;

case 2:prodis(1);

break;

case 3:prodis(2);

break;

case 4:prodis(3);

break;

case 5:prodis(4);

break;

case 6:prodis(5);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

case 2:

cout<<"APPLE:\n";

cout<<"1.Apple MacBook Air MQD32HN/A Ultrabook (Core i5 5th Gen/8 GB/128 GB SSD/macOS Sierra : Rs62990\n";

cout<<"2.Apple MacBook Air MVFM2HN/A Ultrabook (Core i5 8th Gen/8 GB/128 GB SSD/macOS Mojave) : Rs89990\n";

cout<<"3.Apple MacBook Pro MV962HN/A Ultrabook (Core i5 8th Gen/8 GB/256 GB SSD/macOS Mojave) : Rs154990\n";

cout<<"4.Apple MacBook Air MVFN2HN/A Ultrabook (Core i5 8th Gen/8 GB/256 GB SSD/macOS Mojave) : Rs105990\n";

cout<<"5.Apple MacBook Pro MR9Q2HN/A Ultrabook (Core i5 8th Gen/8 GB/256 GB SSD/macOS High Sierra) : Rs158994\n";

cout<<"Enter choice\n";

cin>>ch3;

switch(ch3)

{

case 1:prodis(6);

break;

case 2:prodis(7);

break;

case 3:prodis(8);

break;

case 4:prodis(9);

break;

case 5:prodis(10);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

case 3:

cout<<"MICROSOFT:\n";

cout<<"1.Microsoft Surface Go Pentium Gold : Rs29990\n";

cout<<"2.Microsoft Surface Pro 6 (LGP-00001) Laptop (Core i5 8th Gen/8 GB/128 GB SSD/Windows 10) : Rs119490\n";

cout<<"3.Microsoft Surface Pro 3 : Rs58990\n";

cout<<"4.Microsoft Surface Pro 6 1796 (KJU-00015) Laptop (Core i7 8th Gen/8 GB/256 GB SSD/Windows 10) : Rs127363\n";

cout<<"5.Microsoft Surface Pro 4 (CR5-00028) Laptop (Core i5 6th Gen/4 GB/128 GB SSD/Windows 10) : Rs70988\n";

cout<<"Enter choice\n";

cin>>ch3;

switch(ch3)

{

case 1:prodis(11);

break;

case 2:prodis(12);

break;

case 3:prodis(13);

break;

case 4:prodis(14);

break;

case 5:prodis(15);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

case 4:

cout<<"LENOVO:\n";

cout<<"1.Lenovo Ideapad 330-15ARR (81D2008WIN) Laptop (AMD Quad Core Ryzen 5/8 GB/1 TB/DOS) : Rs31990\n";

cout<<"2.Lenovo Laptop IP330S-14IKB 81F400GLIN : Rs37790\n";

cout<<"3.Lenovo Ideapad 130 (81H7009WIN) Laptop (Core i3 7th Gen/4 GB/1 TB/Windows 10) : Rs26590\n";

cout<<"4.Lenovo 330S (81F501EMIN) Laptop (Core i3 7th Gen/4 GB/1 TB/Windows 10) : Rs33090\n";

cout<<"Enter choice\n";

cin>>ch3;

switch(ch3)

{

case 1:prodis(16);

break;

case 2:prodis(17);

break;

case 3:prodis(18);

break;

case 4:prodis(19);

break;

default:cout<<"WRONG CHOICE\n";

}

break;

}

cout<<"enter 1 if you want to buy in the same catergory else enter 0\n";

cin>>j;

}while(j==1);

calculate();

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

{

if(pq[i]>0)

tpq[i]=tpq[i]-pq[i];

}

}

void tablets()

{

int a=0;

ifstream intablet;

intablet.open("tablet.txt",ios::in);

while(!intablet.eof())

{

intablet>>pn[a];

intablet>>pp[a];

intablet>>tpq[a];

a++;

}

intablet.close();

int j;

int ch4;

int ch;

do

{

cout<<"TABLETS:\n";

cout<<"1.SAMSUNG:\n";

cout<<"2.APPLE:\n";

cout<<"3.LENOVO:\n";

cout<<"ENTER CHOICE\n";

cin>>ch;

switch(ch)

{

case 1:

cout<<"SAMSUNG:\n";

cout<<"1.Samsung Galaxy Tab S5e : Rs34999\n";

cout<<"2.Samsung Galaxy Tab A 10.1 2019 LTE : Rs14999\n";

cout<<"3.Samsung Galaxy Tab A 10.5 LTE : Rs29990\n";

cout<<"4.Samsung Galaxy Tab A 8.0 2019 : Rs9999\n";

cout<<"5.Samsung Galaxy Tab A 8.0 2017 LTE : Rs17499\n";

cout<<"6.Samsung Galaxy Tab A 7.0 : Rs8990\n";

cout<<"Enter choice\n";

cin>>ch4;

switch(ch4)

{

case 1:prodis(0);

break;

case 2:prodis(1);

break;

case 3:prodis(2);

break;

case 4:prodis(3);

break;

case 5:prodis(4);

break;

case 6:prodis(5);

break;

default:cout<<"WRONG CHOICE";

}

break;

case 2:

cout<<"APPLE:\n";

cout<<"1.Apple iPad 2018 WiFi 32GB : Rs26880\n";

cout<<"2.Apple iPad Mini 2019 : Rs34990\n";

cout<<"3.Apple iPad Air 2019 : Rs42655\n";

cout<<"4.Apple iPad Pro 11 WiFi Cellular 256GB : Rs96394\n";

cout<<"5.Apple iPad Pro 12.9 2018 : Rs89900\n";

cout<<"Enter choice\n";

cin>>ch4;

switch(ch4)

{

case 1:prodis(6);

break;

case 2:prodis(7);

break;

case 3:prodis(8);

break;

case 4:prodis(9);

break;

case 5:prodis(10);

break;

default:cout<<"WRONG CHOICE";

}

break;

case 3:

cout<<"LENOVO:\n";

cout<<"1.Lenovo Tab 4 10 16GB LTE : Rs14670\n";

cout<<"2.Lenovo Yoga Tab 3 10 LTE : Rs19990\n";

cout<<"3.Lenovo Tab 7 : Rs9460\n";

cout<<"4.Lenovo Tab 4 8 Plus 64GB LTE : Rs21990\n";

cout<<"5.Lenovo Yoga Tab 3 8 2GB RAM : Rs13610\n";

cout<<"Enter choice\n";

cin>>ch4;

switch(ch4)

{

case 1:prodis(11);

break;

case 2:prodis(12);

break;

case 3:prodis(13);

break;

case 4:prodis(14);

break;

case 5:prodis(15);

break;

default:cout<<"WRONG CHOICE";

}

break;

}

cout<<"enter 1 if you want to buy in the same catergory else enter 0\n";

cin>>j;

}while(j==1);

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

{

if(pq[i]>0)

tpq[i]=tpq[i]-pq[i];

}

calculate();

}

void display()

{

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

{

if(pq[i]>0)

cout<<setw(50)<<pn[i]<<setw(20)<<pq[i]<<setw(20)<<"Rs. "<<pp[i]\*pq[i]<<"\n";

}

}

void fdisplay()

{

cout<<"===================================================================================================================";

cout<<"\nAMOUNT"<<setw(84)<<"Rs. "<<amt;

cout<<"\nGST : 12%"<<setw(81)<<"Rs. "<<(amt\*0.12)<<"\n";

cout<<"\nTOTAL AMOUNT"<<setw(78)<<"Rs. "<<((amt\*0.12)+amt)<<"\n";

cout<<"===================================================================================================================";

}

void calculate()

{

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

{

price=pp[i]\*pq[i];

amt=amt+price;

}

}

void input()

{

output.open("sold.txt",ios::app);

outinfo.open("userinfo.txt",ios::app);

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

{

if(pq[i]>0)

{

output<<setw(50)<<pn[i]<<setw(20)<<pq[i]<<setw(20) <<pp[i]\*pq[i]<<"\n";

outinfo<<setw(50)<<pn[i]<<setw(20)<<pq[i]<<setw(20) <<pp[i]\*pq[i]<<"\n";

}

}

output.close();

outinfo.close();

}

void modifye()

{

ofstream mode;

mode.open("earphone.txt");

for(int i=0;i<22;i++)

{

mode<<pn[i]<<endl;

mode<<pp[i]<<endl;

mode<<tpq[i]<<endl;

}

mode.close();

}

void modifym()

{

ofstream modm;

modm.open("mobile.txt");

for(int i=0;i<23;i++)

{

modm<<pn[i]<<endl;

modm<<pp[i]<<endl;

modm<<tpq[i]<<endl;

}

modm.close();

}

void modifyl()

{

ofstream modl;

modl.open("laptop.txt");

for(int i=0;i<20;i++)

{

modl<<pn[i]<<endl;

modl<<pp[i]<<endl;

modl<<tpq[i]<<endl;

}

modl.close();

}

void modifyt()

{

ofstream modt;

modt.open("tablet.txt");

for(int i=0;i<16;i++)

{

modt<<pn[i]<<endl;

modt<<pp[i]<<endl;

modt<<tpq[i]<<endl;

}

modt.close();

}

};

class admin

{

string pn1[100];

int pp1[100];

int tpq1[100];

public:

admin()

{

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

{

pp1[i]=0;

tpq1[i]=0;

}

}

void soldreport()

{

char line[200];

ifstream in;

in.open("sold.txt",ios::in);

while(!in.eof())

{

in.getline(line,200);

cout<<line<<endl;

}

in.close();

}

void userreport()

{

char line[200];

ifstream in;

in.open("userinfo.txt",ios::in);

while(!in.eof())

{

in.getline(line,200);

cout<<line<<endl;

}

in.close();

}

void stockreporte()

{

cout<<setw(50)<<"ITEM"<<setw(20)<<"QUANTITY"<<"\n";

ifstream stock;

stock.open("earphone.txt",ios::in);

int a=0;

while(!stock.eof())

{

stock>>pn1[a];

stock>>pp1[a];

stock>>tpq1[a];

a++;

}

for(int i=0;i<a-1;i++)

{

cout<<setw(50)<<pn1[i]<<setw(20)<<tpq1[i]<<"\n";

}

stock.close();

}

void stockreportm()

{

ifstream stock;

stock.open("mobile.txt",ios::in);

int a=0;

while(!stock.eof())

{

stock>>pn1[a];

stock>>pp1[a];

stock>>tpq1[a];

a++;

}

for(int i=0;i<a-1;i++)

{

cout<<setw(50)<<pn1[i]<<setw(20)<<tpq1[i]<<"\n";

}

stock.close();

}

void stockreportl()

{

ifstream stock;

stock.open("laptop.txt",ios::in);

int a=0;

while(!stock.eof())

{

stock>>pn1[a];

stock>>pp1[a];

stock>>tpq1[a];

a++;

}

for(int i=0;i<a-1;i++)

{

cout<<setw(50)<<pn1[i]<<setw(20)<<tpq1[i]<<"\n";

}

stock.close();

}

void stockreportt()

{

ifstream stock;

stock.open("tablet.txt",ios::in);

int a=0;

while(!stock.eof())

{

stock>>pn1[a];

stock>>pp1[a];

stock>>tpq1[a];

a++;

}

for(int i=0;i<a-1;i++)

{

cout<<setw(50)<<pn1[i]<<setw(20)<<tpq1[i]<<"\n";

}

stock.close();

}

};

long double electronics::amt=0;

int main()

{

int choice,k;

cout<<"1:Customer"<<endl;

cout<<"2:Admin"<<endl;

cin>>choice;

admin ob;

electronics obj;

electronics obj1;

electronics obj2;

electronics obj3;

electronics obj4;

switch(choice)

{

case 1:

{

obj.info();

int ch;

int j;

cout<<endl;

cout<<"WELCOME TO TECHSTOP"<<endl;

do

{

cout<<endl;

cout<<"1.Earphones\n";

cout<<"2.Mobile\n";

cout<<"3.Laptop\n";

cout<<"4.Tablet\n";

cout<<"Enter choice\n";

cin>>ch;

switch(ch)

{

case 1:obj1.earphones();

obj1.modifye();

break;

case 2:obj2.mobile();

obj2.modifym();

break;

case 3:obj3.laptop();

obj3.modifyl();

break;

case 4:obj4.tablets();

obj4.modifyt();

break;

default:"WRONG CHOICE\n";

}

cout<<"enter 1 if you want to buy in the other catergory else enter 0\n";

cin>>j;

}while(j==1);

cout<<endl<<endl;

cout<<setw(60)<<"TECHSTOP"<<endl;

obj.userdisplay();

cout<<"BILL:\n";

cout<<setw(50)<<"ITEM"<<setw(20)<<"QUANTITY"<<setw(24) <<"AMOUNT"<<"\n";

obj1.display();

obj2.display();

obj3.display();

obj4.display();

obj4.fdisplay();

ofstream out;

out.open("sold.txt",ios::app);

//out<<setw(50)<<"ITEM"<<setw(20)<<"QUANTITY"<<setw(20) <<"AMOUNT"<<"\n";

out.close();

obj1.input();

obj2.input();

obj3.input();

obj4.input();

}

break;

case 2:

int u;

wc:

cout<<"Enter Username and Password"<<endl;

cout<<"1.Existing User"<<endl;

cout<<"2.New User"<<endl;

cin>>u;

switch(u)

{

case 1:

{

ifstream input;

ofstream output;

input.open("account.txt",ios::in);

int i=0;

string username[100];

string password[100];

string user;

string pass;

while(!input.eof())

{

input>>username[i];

input>>password[i];

i++;

}

cout<<"ENTER USERNAME"<<endl;

cin>>user;

int c=100,c1;

eagain:

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

{

if(user==username[j])

{

cout<<"USERNAME FOUND"<<endl;

c=0;

c1=j;

}

}

if(c!=0)

{

cout<<"USERNAME NOT FOUND"<<endl;

cout<<"ENTER USERNAME AGAIN"<<endl;

cin>>user;

goto eagain;

}

cout<<"ENTER PASSWORD"<<endl;

cin>>pass;

eagain1:

if(pass==password[c1])

cout<<"ACCOUNT FOUND"<<endl;

else

{

cout<<"ENTERED WRONG PASSWORD"<<endl;

cout<<"ENTER PASSWORD AGAIN"<<endl;

cin>>pass;

goto eagain1;

}

input.close();

}

break;

case 2:

{

string username,password;

ofstream o\_stream;

o\_stream.open("account.txt",ios::app);

cout<<"Enter your username: ";

getline(cin,username);

getline(cin,username);

cout<<"Enter your password: ";

cin>>password;

o\_stream<<username<<endl;

o\_stream<<password<<endl;

cout<<"Welcome "<<endl;

o\_stream.close();

}

break;

default:

{

cout<<"Wrong Choice"<<endl;

return 0;

}

}

do

{

int n,s,x;

cout<<"Enter:\n";

cout<<"1. SOLD REPORT\n";

cout<<"2. STOCK REPORT\n";

cout<<"3. USER REPORT\n";

cin>>n;

switch(n)

{

case 1:cout<<"SOLD REPORT:"<<endl<<"\n";

ob.soldreport();

break;

case 2:do

{

cout<<"STOCK REPORT OF:"<<endl;

cout<<"1.Earphones"<<endl;

cout<<"2.Mobiles"<<endl;

cout<<"3.Laptops"<<endl;

cout<<"4.Tablets"<<endl;

cin>>s;

switch(s)

{

case 1: cout<<"STOCK REPORT OF EARPHONES:"<<endl<<"\n";

ob.stockreporte();

break;

case 2: cout<<"STOCK REPORT OF MOBILES:"<<endl<<"\n";

ob.stockreportm();

break;

case 3: cout<<"STOCK REPORT OF LAPTOPS:"<<endl<<"\n";

ob.stockreportl();

break;

case 4: cout<<"STOCK REPORT OF TABLETS:"<<endl<<"\n";

ob.stockreportt();

break;

default: cout<<"Wrong Choice"<<endl;

}

cout<<"Enter 1 to check other stock report else enter 0"<<endl;

cin>>x;

}while(x==1);

break;

case 3: cout<<"USER REPORT"<<endl;

ob.userreport();

break;

default:cout<<"Wrong Choice"<<endl;

}

cout<<"enter 1 if you want to any other report else enter 0\n";

cin>>k;

}while(k==1);

break;

default:cout<<"Wrong Choice";

return 0;

}

}