## **Project Title: BILLING MANAGEMENT SYATEM**

Project Submitted by: ISHWOR KHATIWADA

BIT, 2<sup>nd</sup> Semester, Texas College of Management and IT

College Roll No.: ishwor.khatiwada\_LC00017000772

Kathmandu, Nepal

Project Submitted to: Mr. Kumar Poudyal

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## **Introduction:**

Super market billing system is a simple application built in C++. This project uses basically two things – use of various functions and file handling. The project is relatively simple to understand as there are just a few features. Listed below are the key features of this project:

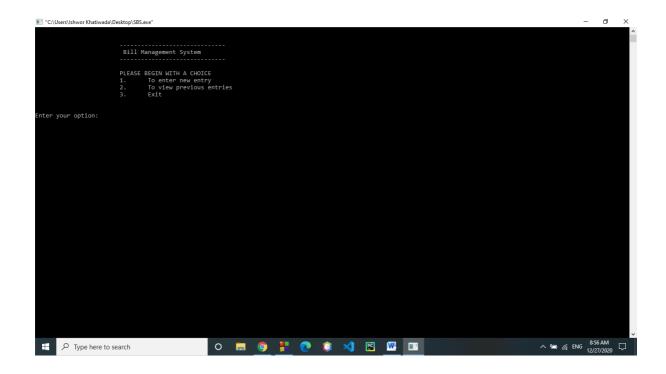
- To Add new Entry for Billing
- Show Previous Entry

In the program at first user has to enter the total number of products purchased this is for the repetition of the loop for **Nth** times Repetition of loop.

**IFSTREAM** are which performs input/output operations on the file they are associated with i.e. **data.TXT whereas, OFSTREAM** represents the output file stream and is used to create files and to write information to files **i.e. abc.TXT**.

For switching between conditions **switch case** is used and 3various options are provided.

## **Output Screenshots:**



## **SOURCE CODE:**

```
#include<iostream>
#include<process.h>
#include<fstream>
#include <stdlib.h>
using namespace std;
class head
       char Iname[50][50];
public:
       int totalitems;
       float Qty[3];
       float price[3];
       int vatprice[3];
       int tprice[3];
       void input();
       void output();
};
class vat:public head
```

```
{
       float vats;
public:
       void vatcal();
       void outputs();
       void sum();
};
//
         INPUT FUNCTION
void head::input()
       system("CLS");
       cout<<"\nEnter The total number of items purchased ";</pre>
       cin>>totalitems:
       for(int i=0; i<totalitems; i++)
              cout<<"\nEnter the name of each items purchased "<<i+1<<": ";
              cin>>Iname[i];
              cout<<"Enter the quantity: ";</pre>
              cin>>Qty[i];
              cout<<"Enter price of each item "<<i+1<<": ";
              cin>>price[i];
              tprice[i]=Qty[i]*price[i];
}
//
         OUTPUT FUNCTION
void head::output()
       int a;
       ifstream infile("data.TXT");
       infile>>a:
       ofstream outfile("data.TXT");
       a+=1;
       outfile<<a;
       outfile.close();
       {ofstream outfile("abc.TXT", ios::app);
       outfile << endl << "Bill No.: " << a << endl;
       outfile<<"-----
cout << "\n";
       cout<<"Name of Item\tQuantity Price Total Price Total vat\n";</pre>
       for(int i=0;i<totalitems;i++)
```

```
outfile<<"Name: "<<Iname[i]<<" Qty: "<<Qty[i]<<" Price:
"<<tprice[i]<<"vat:"<<vatprice[i]<< endl;
            cout<<Iname[i]<<"\t\t"<<Qty[i]<<"\t "<<pri>rice[i]<<"\t "<<tprice[i]<< \n';
      }
      outfile<<"-----"<<endl;
      outfile.close();
}
//
       VAT CALCULATION
void vat::vatcal()
      input();
      for(int i=0;i<totalitems;i++)</pre>
                  vatprice[i]=tprice[i]+(0.13*tprice[i]);
      }
}
//
        VAT OUTPUTS
void vat::outputs()
      output();
      float cash=0,sum=0,qty=0,sumt=0;
      for(int i=0;i<totalitems;i++)
         sumt+=tprice[i];
             sum+=vatprice[i];
             qty+=Qty[i];
      cout<<"\nTotal:";
      cout<<"\n-----";
      cout<<"\n\tQuantity= "<<qty<<"\t\t Sum= "<<sumt<<"\tWith Vat:"<<sum;
pay:
      cout << "\n\t\t\t
      cout<<"\n\t\tTotal cash given by buyer: ";
      cin>>cash;
      if(cash>=sum)
            cout<<"\n\t\t\tRemaining cash to be paid to customer: "<<cash-sum<<'\n';
      else
```

```
{
            cout<<"\n\t\tCash given is less than total amount!!!";
      goto pay;
}
//
      THE MAIN FUNCTION OF PROGRAM
int main()
      vat obj;
      char opt, ch;
      int a=1;
      ifstream fin;
      do{
start:
      system("PAUSE");
      system("CLS");
      cout<<"\n\n\t\t\----;
      cout<<"\n\t\t Billing Management System";
      cout << "\n\t\t\----";
      cout<<"\n\n\t\t\t ENTER YOUR CHOICE TO BEGIN";
      cout<<"\n\nEnter your option: ";</pre>
      cin>>opt;
      switch(opt)
      {
      case'1':
            obj.vatcal();
            obj.outputs();
            goto start;
      case'2':
            fin.open("abc.TXT", ios::in);
            while(fin.get(ch))
            {
                  cout<<ch;
            fin.close();
            goto start;
      case'3':
            exit(0);
      default:
```

```
cout<<"\a";
}
}while(opt!=3);
}</pre>
```