Write a program to demonstrate the use of different ios flags and functions to format the output. Create a program to generate the bill invoice of a department store by using different formatting.

```
#include <iostream>
#include <fstream>
#include <iomanip>
using namespace std;
int main()
{
 ofstream bill("bill.txt",ios::out);
 bill<< "ABCD SUPER MARKET" << endl;
 cout<<"ABCD SUPER MARKET" << endl;
 int sno = 1;
 char part[20];
 int qt;
 float price;
 float subtotal;
 float total = 0;
 char ans;
 bill << setw(4) << "Sno " << setw(20) << left << "Particulars "<< setw(10) << "Quantity
" << setw(6) << "Price "<< setw(10) <<"Sub total " << endl;
 do{
  cout << "Particulars:" ;
  cin >> part;
  cout << "Quantity:";
  cin >> qt;
  cout << "Price:";
  cin >> price;
  cout << "Sub Total:";
  subtotal = qt * price;
  cout << subtotal << endl;
  total += subtotal;
  bill << setw(4) << sno++ << setw(20) << left << part << setw(10)  << qt << setw(6) <<
price << setw(10) << subtotal << endl;
  cout << "Do you want to continue (y/n)";
  cin >> ans;
 }
 while(ans == 'y');
 cout << "total " << total;
```

```
 bill << setw(34) << "total" << setw(10) << total << endl;
 bill.close();
 return 0;
}

#include<iostream>//or
#include<conio.h>
#include<iomanip>
using namespace std;
class Bill
{
   string *item_name;
   int *item_quantity,n;
   float *item_rate,*total_price;
public:
   void getdata()
   {
      cout<<"Enter the no of items:";
      cin>>n;
      item_name = new string[n];
      item_quantity = new int[n];
      item_rate=new float[n];
      total_price= new float[n];
      for(int i=0;i<n;i++)
      {
         cin.ignore();
         cout<<endl<<"Enter item name:\t";
         getline(cin,item_name[i]);
         cout<<endl<<"Enter item quantity:\t";
         cin>>item_quantity[i];
         cout<<endl<<"Enter item rate:\t";
         cin>>item_rate[i];
         total_price[i]=item_quantity[i]*item_rate[i];
      }
   }
   void display()
   {
      int total=0;
      system("cls");
      cout<<right<<setfill('*')<<setw(62)<<"WELCOME"<<setw(55)<<' '<<endl;
```

```
      cout<<left<<setfill(' ')<<setw(15)<<"S.N"<<setw(25)<<"Item
name"<<setw(25)<<"Item quantity"<<setw(25)<<"Item rate"<<setw(25)<<"Total
price"<<endl;
      for(int i=0;i<n;i++)
      {
cout<<left<<setw(15)<<i+1<<setw(25)<<item_name[i]<<setw(25)<<item_quantity[i]<<
setw(25)<<item_rate[i]<<setw(25)<<total_price[i]<<endl;
         total+=total_price[i];
      }
      cout<<right<<setw(96)<<"----------"<<endl;
      cout<<right<<setw(91  )<<total;
   }
};
int main()
{
   Bill b;
   b.getdata();
   b.display();
}
```