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**PRN - B24CE1079**

**Subject - Object Oriented Programming**

**Assignment 7**

/\*PROBLEM STATEMENT: Develop a system that defines inventory class with suitable data members and member functions. Perform read and write operations using class objects.\*/

**PROGRAM**

```
#include<iostream>
#include<fstream>
#include<string>
using namespace std;

class Inventory
{
    string item;
    int q, id;
    float price;

public:
    void accept();
    void display();
};

void Inventory::accept() {
    cout << "Enter name of the item: ";
    cin >> item;
    cout << "Enter item ID: ";
    cin >> id;
    cout << "Enter quantity: ";
    cin >> q;
    cout << "Enter price: ";
    cin >> price;
    cout << "\n";
}

void Inventory::display() {
    cout << "-----Item Details-----\n";
    cout << "Name of the item: " << item << endl;
    cout << "ID: " << id << endl;
    cout << "Quantity: " << q << endl;
    cout << "Price: " << price << endl;
```

```

    cout << "\n";
}
int main() {
    ofstream file_obj;
    int n;
    cout << "Enter number of items: ";
    cin >> n;

    Inventory obj[n];
    cout << "\nEnter item details\n";

    for (int i = 0; i < n; i++) {
        obj[i].accept();
        file_obj.open("Input.txt");
        file_obj.write((char*)&obj[i], sizeof(obj[i]));
        file_obj.close();
    }

    ifstream file_obj2;
    cout << "\nReading data from file...\n\n";
    for (int i = 0; i < n; i++) {
        file_obj2.open("Input.txt");
        file_obj2.read((char*)&obj[i], sizeof(obj[i]));
        obj[i].display();
        file_obj2.close();
    }

    return 0;
}

```

## OUTPUT

```
Enter number of items: 3

Enter item details
Enter name of the item: file
Enter item ID: 123
Enter quantity: 3
Enter price: 25

Enter name of the item: book
Enter item ID: 485
Enter quantity: 2
Enter price: 95

Enter name of the item: pen
Enter item ID: 456
Enter quantity: 10
Enter price: 50

Reading data from file...

-----Item Details-----
Name of the item: pen
ID: 456
Quantity: 10
Price: 50

-----Item Details-----
Name of the item: pen
ID: 456
Quantity: 10
Price: 50

-----Item Details-----
Name of the item: pen
ID: 456
Quantity: 10
Price: 50
```