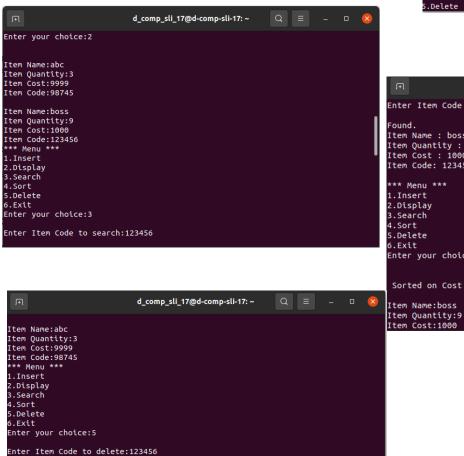
PRACTICAL 6s

```
Name: Aryan Mane
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Div: B
Batch: B2
#include <iostream>
#include <algorithm>
#include <vector>
using namespace std;
class Item
public:
char name[10];
int quantity;
int cost;
int code;
bool operator==(const Item& i1)
if(code==i1.code)
return 1;
return 0;
bool operator<(const Item& i1)
if(code<i1.code)
return 1;
return 0;
}
};
vector<Item> o1;
void print(Item &i1);
void display();
void insert();
void search();
void dlt();
bool compare(const Item &i1, const Item &i2)
return i1.cost < i2.cost;
int main()
int ch;
do
cout<<"\n*** Menu ***";
cout<<"\n1.Insert";</pre>
cout << "\n2.Display";
cout << "\n3.Search";
cout << "\n4.Sort";
cout << "\n5.Delete";
```

```
cout<<"\n6.Exit";
cout<<"\nEnter your choice:";</pre>
cin>>ch;
switch(ch)
case 1:
insert();
break;
case 2:
display();
break;
case 3:
search();
break;
case 4:
sort(o1.begin(),o1.end(),compare);
cout << "\n\n Sorted on Cost";
display();
break;
case 5:
dlt();
break;
case 6:
exit(0);
}
}while(ch!=7);
return 0;
void insert()
Item i1:
cout<<"\nEnter Item Name:";</pre>
cin>>i1.name;
cout<<"\nEnter Item Quantity:";</pre>
cin>>i1.quantity;
cout<<"\nEnter Item Cost:";</pre>
cin>>i1.cost;
cout<<"\nEnter Item Code:";</pre>
cin>>i1.code;
o1.push_back(i1);
void display()
for_each(o1.begin(),o1.end(),print);
```

```
void print(Item &i1)
           cout << "\n";
           cout<<"\nItem Name:"<<i1.name;</pre>
           cout<<"\nItem Quantity:"<<i1.quantity;</pre>
           cout<<"\nItem Cost:"<<i1.cost;</pre>
           cout<<"\nItem Code:"<<i1.code;</pre>
          void search()
           vector<Item>::iterator p;
           Item i1;
           cout<<"\nEnter Item Code to search:";</pre>
           cin>>i1.code;
           p=find(o1.begin(),o1.end(),i1);
           if(p==o1.end())
           cout<<"\nNot found.";</pre>
           }
           else
           cout<<"\nFound."<<endl;</pre>
           cout<<"Item Name : "<<p ->name<<endl;</pre>
           cout<<"Item Quantity : "<<p ->quantity<<endl;</pre>
           cout<<"Item Cost : "<<p ->cost<<endl;</pre>
           cout<<"Item Code: "<<p ->code<<endl;</pre>
           }
          void dlt()
           vector<Item>::iterator p;
           Item i1;
           cout<<"\nEnter Item Code to delete:";</pre>
           cin>>i1.code;
           p=find(o1.begin(),o1.end(),i1);
           if(p==o1.end())
           cout << "\nNot found.";
           else
           o1.erase(p);
                                                                           cout<<"\nDeleted.";
                         d_comp_sli_17@d-comp-sli-17: ~
 _comp_sli_17@d-comp-sli-17:-$ gedit 6.cpp
_comp_sli_17@d-comp-sli-17:-$ g++ 6.cpp -o run
_comp_sli_17@d-comp-sli-17:-$ ./run
 ** Menu ***
 .Display
nter your choice:1
Enter Item Name:abc
Enter Item Quantity:3
Enter Item Cost:9999
Enter Item Code:98745
*** Menu ***
```



Deleted.
*** Menu ***
1.Insert
2.Display
3.Search
4.Sort
5.Delete

