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Test-Testvagrant
Solution of the code:-
#include <iostream>
#include <vector>
#include <cstring>
using namespace std;
struct Item {
  string name;
  int quantity;
  int price;//Unit price in Rupees
};
class ShoppingCart {
private:
  vector<Item> item;
  int total_price;
public:
  ShoppingCart();
  void addItem(string name, int quantity, int price);
  void gst(float cost, float price);
  int getTotal();
};
ShoppingCart() {
  cout << "Shopping cart" << endl;</pre>
  total_price = 0;
}
```

```
void ShoppingCart::addItem(string name, int quantity, int price) {
  for (int i = 0; i < item.size(); i++) {
    if (item[i].name == name) {
       item[i].quantity += quantity;
       return;
    }
  }
  Item temp;
  temp.name = name;
  temp.quantity = quantity;
  temp.price = price;
  item.push_back(temp);
}
void ShoppingCart::gst(float cost, float price)
{
        for (int i = 0; i < item.size(); i++){
                if(price>500){
                          return (price - cost) * 100 / cost;
                }
                cout << "GST amount is = "<<gst(cost, price)<<" % ";</pre>
        }
}
int ShoppingCart::getTotal() {
  total_price = 0;
  for (int i = 0; i < item.size(); i++) {
    total_price += item[i].quantity * item[i].price;
  }
  return total_price;
```

```
int main() {
    ShoppingCart cart;
    cart.addItem("Leather wallet", 1, 1100);
    cart.addItem("Umbrella", 2, 900);
    cart.addItem("Cigarette", 3, 200);
    cart.addItem("Honey",4,100);
    cout << "Total amount paid to be shopkeeper: " << cart.getTotal() << endl;
    cart.gst();
}</pre>
```