Name = Tushar Sharma Collage = Lovely Professional University
Gmail = sharmatushar.bs02@gmail.com   Phone no. = 7388999240.
Registration no. = 12020553   Year of passing = 2023.

```cpp
#include<bits/stdc++.h>

using namespace std;


struct Product{

    string name;

    int price;

    float gst;

    int quantity;


};


class basket{

    vector<Product> list;

    float total;

    float max_gst;

    public:

    void add_items(){

      int cc = 0;


        do{

        cout<<"Enter Product details:\n";

        string nam;

        int  price, quan;

        float rate;

        cout<<"Enter name, price, gst and quantity in order(space seprated) \n\n";

        getline(cin, nam);

        cin. clear();

        cin.ignore();

        cin>> price>>rate>>quan;

        Product temp;

        temp.name = nam; temp.price = price; temp.gst = rate; temp.quantity = quan;
```

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```cpp
        list.push_back(temp);

        cin. clear();

        cin.ignore();


        cout<<"Enter succesfully.... (press non zero value to add more):\n";

        cin>> cc;


    }
    while(cc);

    }


    float grand_total(){

        float t_total = 0.0;

        for(auto& it: list){


            float value = (it.price * it.gst)/100;

            if(it.price >= 500)

            t_total += ((value * 0.95)* it.quantity);

            else

            t_total += (value * it.quantity);

        }

        total = t_total;

        return total;

    }


    float calc_max_gst(){

        this->max_gst = 0.0;

        for(auto& it: list){

            if(it.gst > max_gst)

            max_gst = it.gst;
```

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```cpp
    }

    return max_gst;

}


};


int main(){

    basket obj;

    obj.add_items();

    cout<<obj.grand_total()<<endl;

    cout<<obj.calc_max_gst();


    return 0;

}
```

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