

Q1. A leather company has multiple leather products, they are categorized in 'footwear', 'coats' and 'bags'. In one category there could be several different types of items. The company wants to calculate the total profit in each category. You have been given an Item struct with its attributes. You need to create a Products struct in which there would be 20 different types of items.

```
struct Item {  
    string item_name;  
    string category;  
    Int quantity;  
    float cost_price;  
    float retail_price;  
};
```

You need to code only for following questions:

- Create Products struct with parameterized constructor and destructor. Products would have 20 items.
- Assume that there exists 20 products with different categories. You need to create a function named calcProfit for Products struct whose parameter would be category and it returns the total profit after calculating for all the items in that category.