Bind with Structure, Arrays ,pointers and functions.

Project Title: Stock market profit and ranking

During Covid19 pandemic situation Indian government had imposed a strict lockdown in view of public security and safety. Due to lockdown many business has incurred huge loss .Among them Arun was one who had incurred heavy loss in his business. So Arun decided to overcome the loss by investing and started doing trading in stock market with the available amount what he had.

Arun started trading in stock market and purchased 10 stocks and earned some profit. But he was not able to calculate the profit he got. As per stock market on purchase of any stock there will be 7% of brokerage as well on selling any stock there also has 7% of brokerage charges.

Arun was confused and not able find his total profit earned. And also based on the profits earned, he decided to give ranking to the stocks which has gave more profit to him.

Following is the ranking given to the stock based on total profit earned.

Total profit **>=20%** then "**Best stock**"

Total profit**<20% and >=15%** then **"Good stock"**

Total profit **<15% and >=10%** then **"Average stock"**

Total profit **<10%** then **"Poor stock"**

Input:

Create a structure to read following details of a stock

- Name of the stock
- Stock Quantity
- Buy stock price
- Selling Stock price

Output:

- ❖ Name of the stock
- ❖ Total profit earned for each stock and
- ❖ Ranking for each stock.

Sample Input:

Name of stock	**Quantity**	**Buy_price**	**Sell_price**
SBI	50	100	140
TATA MOTORS	100	104	136
ZEEL	200	180	225

Sample Output:

Name of stock	**Total Profit_Earned**	**%Profit**	**Rank**
SBI	1160	23.2	Best stock
TATA MOTORS	1520	14.62	Average stock
ZEEL	3330	9.25	Poor stock

Explanation:

Purchase price=Quantity*Buy_price

=50*100=>5000

Buy_brokerage=5000*7/100=>350

Selling_price=Quantity*Sell_price

=50*140=>7000

Sell_brokerage=7000*7/100=>490

Total_profit=(Selling_price-Purchase_price)-
(Buy_brokerage+Sell_brokerage).

=(7000-5000)-(350+490).

Total_profit =1160.

Find Total_profit is what % of Purchase_price.

i.e 1160 is what % of 5000 (23.2%).

Finally based on the % of profit allocate ranking for each stock.