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### Task no:1

```
#include <iostream>

using namespace std;

int main() {

double priceA = 80.0 ; // price of product A

double priceB = 45.5 ;// price of product B

double priceC = 20.9 ;// price of product c

int quantityA, quantityB, quantityC;

cout<<"Enter the quantity of productA:";

cin>>quantityA;

cout<<"Enter the quantity of productB:";

cin>>quantityB;

cout<<"Enter the quantity of produtC:";

cin>>quantityC;

double total = (priceA * quantityA)+(priceB * quantityB)+(priceC * quantityC);

cout<<"Total cost: $"<<total<<endl;

}
```

### Task no:2

```
#include <iostream>

using namespace std;

int main() {

double priceA = 50.0 ; // price of product A

double priceB = 30.0 ;// price of product B

double priceC = 20.0 ;// price of product c

int quantityA, quantityB, quantityC;

cout<<"Enter the quantity of productA:";

cin>>quantityA;

cout<<"Enter the quantity of productB:";

cin>>quantityB;
```

```
cout<<"Enter the quantity of produtC:";
cin>>quantityC;

double
total = (priceA * quantityA)+(priceB * quantityB)+(priceC * quantityC);

//Aplying discount using a ternary operator double finaltotal=(total>200)?total*0.9:total;

cout<<"total after discount: $ "<<total <<endl;
}
```

### Task no:3

```
#include <iostream>
using namespace std;
int main() {
    double priceA = 50.0 ; // price of product A
    double priceB = 35.0 ;// price of product B
    double priceC = 20.0 ;// price of product c
    int quantityA, quantityB, quantityC;
    cout<<"Enter the quantity of productA:";
    cin>>quantityA;
    cout<<"Enter the quantity of productB:";
    cin>>quantityB;
    cout<<"Enter the quantity of produtC:";
    cin>>quantityC;

    double
    total = (priceA * quantityA)+(priceB * quantityB)+(priceC * quantityC);
    double finaltotal =(total>200)?total*0.9:total;
    cout<<"Total after discount and shiping:$"<<finaltotal<<endl;
}
```

### Task no:4

```
#include <iostream>
using namespace std;
int main() {
    double priceA = 50.0 ; // price of product A
    double priceB = 30.0 ;// price of product B
    double priceC = 20.0 ;// price of product c
```

```

int quantityA, quantityB, quantityC;
cout<<"Enter the quantity of productA:";
cin>>quantityA;
cout<<"Enter the quantity of productB:";
cin>>quantityB;
cout<<"Enter the quantity of productC:";
cin>>quantityC;
double
total = (priceA * quantityA)+(priceB * quantityB)+(priceC * quantityC);
double finaltotal =(total>200)?total*0.9:total;
// Add shipping cost if the total cost is less than $150 double shipping=(finaltotal<150)?15.0:0.0;
cout<<"Total after discount and shipping:$"<<finaltotal<<endl;
double totalwithshipping=finaltotal;
int loyaltypoints=(totalwithshipping>300)?50:20;
cout<<"total after discount and shipping:$"<<totalwithshipping<<endl;
cout<<"loyalty points earned:"<<loyaltypoints<<endl;
}

```

### Task no:5

```

#include <iostream>
using namespace std;
int main() {
double priceA = 50.0 ; // price of product A
double priceB = 30.0 ;// price of product B
double priceC = 20.0 ;// price of product c
int quantityA, quantityB, quantityC;
cout<<"Enter the quantity of productA:";
cin>>quantityA;
cout<<"Enter the quantity of productB:";
cin>>quantityB;
cout<<"Enter the quantity of productC:";
cin>>quantityC;
double
total = (priceA * quantityA)+(priceB * quantityB)+(priceC * quantityC);
int discount;

```

```

cout<<"Enter the discount applied :$";
cin>>discount;

//Aplying discount using a ternary operator
int ondiscount;
cout<<"enter the amount oj which you want to give discount:$";
cin>>ondiscount;
double finaltotal = (total >ondiscount)?total*discount :total;
cout<<"total after discount:$"<<finaltotal<<endl;
double beforeshipping;
cout <<"enter the amount before which shiping fee is aplicable :$";
cin>>beforeshipping;
double shipingdiscount;
cout<<"enter the amount if it is applicable:$ ";
cin>>shipingdicount;
double shipping = (finaltotal<beforeshipping)?shipingdiscount:0.0;
cout<<"total after discount and shipping :$"<<finaltotal +shipping<<endl;
double totalwithshipping + finaltotal+shipping;
double loyaltycriteria;
double loyaltydicount;
cout<<"enter the loyalty criteria:$";cin>>loyaltycriteria ;
cout<<"enter the loyalty discount:";cin>>loyaltydiscont;
int loyaltypoints = (totalwithshipping>loyaltycriteria)?loyalty discount:0
cout<<"total after discount and shipping:$"<<totalwithshipping<<endl;
cout<<"loyalty point earned :"<<loyaltypoints <<endl;
}

```

### Additional Task:

```

#include <iostream>

```

```

int main() {
    double priceA = 80.0 ; // price of product A
    double priceB = 45.5 ;// price of product B
    double priceC = 20.9 ;// price of product c
    int quantityA, quantityB, quantityC;
    cout<<"Enter the quantity of productA:";

```

```
cin>>quantityA;  
cout<<"Enter the quantity of productB:";  
cin>>quantityB;  
cout<<"Enter the quantity of productC:";  
cin>>quantityC;  
double total = (priceA * quantityA)+(priceB * quantityB)+(priceC * quantityC);  
cout<<"total amount:$"<<total<<endl;  
double shippingcost;  
cout<<"enter the shipping cost:$";  
cin<<shipcost;  
double totalwithshipping=shippingcost+total;  
int paymentmethod;  
cout<<"select the payment method(1 for credit card,2 for cash):";  
cin>>paymentmethod;  
double  
transactionfee=(paymentmethod==1)?totalwithshipping*0.02:(paymentmethod==2)?totalwithshipping*0.03:0.0;  
double totalafterpayment = totalwithshipping+transactionfee;  
cout<<"total payment:$"<<totalafterpayment;  
}
```