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| **IPO** | **Python** |
| Inputs: |  |
| gold |  |
| silver |  |
| platinum |  |
| Outputs: |  |
| Total number of coins purchased |  |
| Cost of purchase by metals |  |
| Total cost including fee and sales tax |  |
|  |  |
| Processing steps:total number of coins, cost per metal, and total cost |  |
| Enter amount of gold ounces to purchase | numberOfGoldOunces = int(input(“Enter the number of gold ounces: “) ) |
| Enter amount of silver ounces to purchase | numberOfSilverOunces = int(input(“Enter the number of silver ounces: “) ) |
| Enter amount of platinum ounces to purchase | numberOfPlatinumOunces = int(input(“Enter the number of platinum ounces: “) ) |
| total cost of gold = gold \* 1500 | costOfGold = numberOfGoldOunces \* 1500 |
| total cost of silver = silver \* 50 | costOfSilver = numberofSilverOunces \* 50 |
| total cost of platinum = platinum \* 2000 | costOfPlatinum = numberOfPlatinumOunces \* 2000 |
| total ounces = gold + silver + platinum | totalOunces = numberOfGoldOunces + + numberOfSilverOunces + numberOfPlatinumOunces |
| subtotal = cost of gold + cost of silver + cost of platinum | subtotal = costOfGold + costOfSilver + CostOfPlatinum |
| totalCost = subtotal + subtotal \* 0.02 + subtotal \* 0.08 | totalCost = subtotal + subtotal \* 0.02 + subtotal \* 0.08 |
| Display total number of coins purchased | print(“The total number of ounces purchased is “, totalOunces) |
| Display cost of purchases by metal | print(“the total cost of gold is “,costOfGold)  print(“the total cost of silver is “,costOfSilver)  print(“the total cost of platinum is “,costOfPlatinum) |
| Display total cost of all coins | print(“the total cost of purchase is “, totalCost) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number of gold ounces | Number of silver ounces | Number of platinum ounces | Cost of gold | Cost of silver | Cost of platinum | Total number of coins purchased | subtotal | Total cost for all coins |
| 10 | 100 | 1 | 15,000 | 5,000 | 2,000 | 111 | 22,000 | $24,200 |