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| Q1 | Consider a Flight which goes to intermediate destination(upto 2 stops in between the route) before reaching final destination. Each flight can carry fixed number of passengers and particular weights of goods. We can get display list of all the passengers or passengers to particular destination. Write and CPP program to create a flight and add passengers to it. Finally print the details of passengers. |
| Q2 | Consider a courier system. Create a super class CourierItem with members such as id, fromAddress ,toAddress,weight, price with appropriate constructor. Include a method to getPrice().   * Create a subclass PaperItem of CourierItem with members typeOfDocument-like letter, book or others.overidegetPrice() method to calculate price based on type of document and weight. * Materials can be packed in a box and courier. Create another subclass MaterialItem of CourierItem with membersboxHeight, boxWidth. Overide getPrice() method to calculate price based on volume and weight of the box.   Write a main program to create few objects of subclasses and invoke methods to print the prices. |
| Q3 | Consider Network service provider like Reliance who provide services like Broadband and DTH connections.   * Create a class BroadBand with memberscustomerName, id, planAmount. * Create a class DTH with member customerMobileNumber, string channelList[ ], balance. * Create class NetworkProvider with members BroadBandbbArray[ ], DTH dArray[ ], bbCount, dthCount. Include methods like registerNewConnection(BroadBand b), registerNewConnection( DTH d), displayConnetions(inttypeOfConnections)   Write a main program to create a Network service provider with few connections of broadband and DTH. Then register new connections and display the list. |