**Question**

1. You are required to build the following QueueX class in your program.

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| QueueX |
| * queueArr[] * maxSize * rear * front * noItems |
| * QueueX (int s) * insert(int j) * remove() * isEmpty() * isFull() |

1. Write a main program to create an object called *mainQueue* with 5 elements of the QueueX class. This is used to store transactions IDs
2. Allow the user to input 5 transaction IDs from the keyboard and store them in *printerQueue*.

Enter transaction ID 1: 145

Enter transaction ID 2: 666

Enter transaction ID 3: 112

Enter transaction ID 4: 598

Enter transaction ID 5: 123

1. You are required to send these transactions to separate PCs based on the transaction ID. Transactions sent to PC1 contains even transaction IDs and transactions sent to PC2 contain odd IDs. Create two objects called *evenQueue* and *oddQueue* to store these details.

(Eg: ID 666 is sent to PC1 and ID 123 is sent to PC2 )

1. Write the code to remove the numbers and display the result as follows.

PC1

Transaction 666

Transaction 112

Transaction 598

PC2

Transaction 145

Transaction 123