

AccountType		
<i>FULL</i> ("FS"), <i>BUY</i> ("BS"), <i>SELL</i> ("SS"), <i>ADMIN</i> ("AA"); String accountTypeCode; AccountType(String accountTypeCode)		Enums Constructor
Account		
Account() getAccountName() getAccountType() getAccountCredits() setAccountCredits(accountCredits)	User Account object is constructed using user information.	 Getters Setters
FileIO		
FileIO(String fileName) ArrayList<String> readLine() void writeLine() void openInputStream() void openOutputStream() void closeInputStream() void closeOutputStream()	Opening file using File name Populates the list using items from file read, each element is a line. Function that write a line to the file Opening Input stream of file. Opening Output stream of file. Closing Input stream of file. Closing Output stream of file.	
AccountFileIO (extends File IO)		
AccountFileIO(String fileName) ArrayList<Account> getAccounts() void addAccounts(Account account) void removeAccount(Account account) void openFile()	Reads the account file using filename. Populates the accounts list from the file Adds the account in the param to the list of Accounts Removes the account in the param from the list of Accounts Function to successfully open the file	
ItemFileIO (extends File IO)		
ItemFileIO(String fileName) ArrayList<Item> getItems() void addItem(Item item) void removeItem(Item item) void openFile() void closeFile()	Opens and reads the Item file Populates the Items array from the file Adds Item from the param to the file Removes the item in the param from the file Run the open file function Runs the close file function	
TransactionFileIO (extends File IO)		
TransactionFileIO(String fileName) ArrayList<Transaction> getTransactions()	Opens and reads the Transaction file Populates the Transaction array from the file	

void addTransactions(Transaction transaction)	Adds Transaction in param to the file
void removeTransaction(Transaction transaction)	Removes the Transaction in param from the file
void openFile()	Run the open file function
void closeFile()	Runs the close file function
Item	
Item()	Item object that contains item details like name, seller name, bidders info and etc.
void setItemName(String itemName)	Setters
void setSellerUserName(String sellerUserName)	
void setHighestBidderUserName(String highestBidderUserName)	
void setDaysLeft(int daysLeft)	
void setMinimumBid(double minimumBid)	
void setNewItemName(boolean newItemName)	Getters
String getItemName()	
String getSellerUserName()	
String getHighestBidderUserName()	
int getDaysLeft()	
double getMinimumBid()	
boolean isNewItemName()	
AdvertiseTransaction	
AdvertiseTransaction()	Advertise Transaction object that is constructed using item name, seller info, item info and etc.
void setItemName(String itemName)	Setters
void setSellerUsername(String sellerUsername)	
void setHighestBidderUsername(String highestBidderUsername)	
void setDaysLeft(int daysLeft)	
void setMinimumBid(int minimumBid)	
String getItemName()	Getters
String getSellerUsername()	
String getHighestBidderUsername()	
int getDaysLeft()	
int getMinimumBid()	
RefundTransaction	
RefundTransaction()	Refund Transaction object that is constructed using Seller info, bidder info, credit info and etc.
void setSellerUserName(String sellerUserName)	Setters
void setHighestBidderUserName(String highestBidderUserName)	
void setItemCredits(double itemCredits)	
double getItemCredits()	
String getSellerUserName()	

String getHighestBidderUserName()		Getter
BidTransaction		
BidTransaction()	Creates a bid transaction object using params (item name, seller username, highest bidder and etc...)	
StringJustifies		
String leftJustify(String str, char filler, int length)	Adds spaces to the left of a string to make it a certain length	
String rightJustify(String str, char filler, int length)	Adds spaces to the right of a string to make it a certain length	
Interface Parser		
Transaction parser(String line)	Interface for every Parser, contains the function that needs to be implemented. This parser takes in the string line, and returns the Transaction object	
AdvertiseTransactionParser		
AdvertiseTransaction parser(String line)	Parses and returns a Advertise Transacton Object	
BidTransactionParser		
BidTransaction parser(String line)	Parses and Bid Transaction object	
RefundTransactionParser		
RefundTransaction parser(String line)	Parses and returns a Refund transaction object	
Transaction		
Transaction(TransactionType transactionType)	Creates a Transaction object using the TransactionType (enum value)	
TransactionType getTransactionType()		Getter
TransactionType		
<i>LOGOUT</i> ("00"), <i>CREATE</i> ("01"), <i>DELETE</i> ("02"), <i>ADVERTISE</i> ("03"), <i>BID</i> ("04"), <i>REFUND</i> ("05"), <i>ADD_CREDIT</i> ("06");		
TransactionType(String id)	Contructor	Enums
TransactionHandlers Interface		
TransactionType getTransactionType()	Returns the Enum of TransactionType of the type of transaction, example ADD_CREDIT, ADVERTISE and etc...	
String getName()	Get transaction type name, example: Addcred, Advertise, Create, Delete and etc..	
boolean transactionChecker(Transaction transaction)	Returns true if this transaction is the same as the one in parameter.	
All the Handlers below, implements the above interface.		
AddCreaditHandler		
AdvertiseHandler		
BidHandler		
CreateHandler		
DeleteHandler		
LogoutHandler		

RefundHandler	Same as above
BasicHandler	
boolean checkType(Transaction transaction)	Returns true if this transaction is the same as the one in parameter.