*const* fs = require('fs');  
*const* \_ = require('lodash');  
*const* yargs = require('yargs');  
  
*const* customers = require('./customers.js');  
*//--------------------------------------------------------------  
// Start - command configuration  
//--------------------------------------------------------------  
const* idOptions = {  
 describe: 'Customer ID',  
 demand : *true*,  
 alias : 'i'  
}  
  
*const* firstOptions = {  
 describe: 'First Name',  
 demand : *true*,  
 alias : 'f'  
}  
  
*const* lastOptions = {  
 describe: 'Last Name',  
 demand : *true*,  
 alias : 'l'  
}  
  
*const* emailOptions = {  
 describe: 'Customer Email',  
 demand : *true*,  
 alias : 'e'  
}  
  
*const* detailOptions = {  
 describe: 'Customer detail to delete by value',  
 demand : *true*,  
 alias : 'd'  
}  
  
*const* valueOptions = {  
 describe: 'Customer Value to delete by',  
 demand: *true*,  
 alias: 'v'  
}  
  
*const* detailOptions1 = {  
 describe: 'Customer detail to update by value',  
 demand : *true*,  
 alias : 'd1'  
}  
  
*const* valueOptions1 = {  
 describe: 'Customer updated Value ',  
 demand: *true*,  
 alias: 'v1'  
}  
  
*const* argv = yargs  
  
 .command('add','Add a new customer',{  
 id: idOptions,  
 firstName: firstOptions,  
 lastName: lastOptions,  
 email: emailOptions  
 })  
 .command('list','List all customers')  
 .command('update', 'update customer',{  
 detail: detailOptions,  
 value: valueOptions,  
 detail1: detailOptions1,  
 value1: valueOptions1  
 })  
 .command('remove', 'Remove last customer',{  
 detail: detailOptions,  
 value: valueOptions  
 })  
 .help()  
 .argv;  
  
*//--------------------------------------------------------------  
// End - command configuration  
//--------------------------------------------------------------  
var* command = argv.\_[0];  
*//--------------------------------------------------------------  
// node app.js add -i <id> -f <first name> -l <last name> -e <email>  
//--------------------------------------------------------------  
if* (command === 'add'){  
 *var* customer = customers.addCustomer(argv.id,argv.firstName,argv.lastName,argv.email);  
 *if* (customer){  
 customers.logCustomer(customer);  
 }  
}  
*//--------------------------------------------------------------  
//node app.js list  
//--------------------------------------------------------------  
else if* (command === 'list') {  
 *var* AllCustomers = customers.getAll();  
 console.log(`Printing ${AllCustomers.length} customers.`);  
 AllCustomers.forEach((customer)=>{  
 customers.logCustomer(customer);  
 });  
}  
*//--------------------------------------------------------------  
//node app.js remove -d <id, first, last, email> -a <attribute to delete by>  
//--------------------------------------------------------------  
else if* (command === 'remove') {  
 *var* deleted = customers.removeCustomer(argv.detail,argv.value);  
 *if* (deleted)  
 console.log('Unable to remove customer!');  
 *else* console.log('Customer has been removed.');  
}  
*//--------------------------------------------------------------  
// node app.js update --d1 <[id]> --v1 <[attribute of the id]> -d <[id or first or last or email]> -v <[attribute of  
// the id or first or last or email]>  
//--------------------------------------------------------------  
else if* (command === 'update') {  
 *var* update = customers.modifyCustomer(argv.detail1,argv.value1,argv.detail,argv.value);  
 *if* (update)  
 console.log(`Updating Customers placeholder.`);  
}  
*//--------------------------------------------------------------  
else*{  
 console.log('command not recognized');   
}

*const* fs = require('fs');  
*const* \_ = require('lodash');  
*//--------------------------------------------------------------  
//Parse through customer-data.json file  
//--------------------------------------------------------------  
var* fetchCustomers = () => {  
 *try* { *//if file won't exist  
 var* customerString = fs.readFileSync('customer-data.json')  
 *return* JSON.parse(customerString);  
 } *catch*(e){  
 *return* [];  
 }  
};  
*//--------------------------------------------------------------  
// Update customer-data.json file  
//--------------------------------------------------------------  
var* saveCustomers = (customer) => {  
 fs.writeFileSync('customer-data.json',JSON.stringify(customer));  
};  
*//--------------------------------------------------------------  
// Adding a new customer  
//--------------------------------------------------------------  
var* addCustomer = (id,firstName,lastName,email) => {  
 *var* customers = fetchCustomers();  
 *var* customer = {id,firstName,lastName,email};  
   
 *var* duplicateCustomers = customers.filter((customer) => {  
 *return* customer.id === id;  
 *return* customer.firstName === firstName;  
 *return* customer.lastName === lastName;  
 *return* customer.email === email;  
 });  
 *if* (duplicateCustomers.length === 0){  
 customers.push(customer);  
 saveCustomers(customers);  
 *return* customer  
 } *else* {  
 console.log(`Customer ID:${customer.id} already exists!`);  
 }  
 };  
*//--------------------------------------------------------------  
// Log customer details to console  
//--------------------------------------------------------------  
var* logCustomer = (customer) => {  
 console.log('--');  
 console.log(`ID: ${customer.id}`);  
 console.log(`First Name: ${customer.firstName}`);  
 console.log(`Last Name: ${customer.lastName}`);  
 console.log(`Email: ${customer.email}`);  
};  
*//--------------------------------------------------------------  
// Get all customers using fetchCustomers  
//--------------------------------------------------------------  
var* getAll = () => {  
 *return* fetchCustomers();  
};  
*//--------------------------------------------------------------  
// Remove a customer by detail [id, first name, last name, email] and attribute  
//--------------------------------------------------------------  
var* removeCustomer = (det,val) => {  
 *var* customers = fetchCustomers();  
 *var* updtCustomers = '';  
  
 *if* (det === "id") {  
 updtCustomers = customers.filter((customer) => customer.id !== val);  
 saveCustomers(updtCustomers);  
 }  
 *else if* (det === "first") {  
 updtCustomers = customers.filter((customer) => customer.firstName !== val);  
 saveCustomers(updtCustomers);  
 }  
 *else if* (det === "last") {  
 updtCustomers = customers.filter((customer) => customer.lastName !== val);  
 saveCustomers(updtCustomers);  
 }  
 *else if* (det === "email") {  
 updtCustomers = customers.filter((customer) => customer.email !== val);  
 saveCustomers(updtCustomers);  
 }  
 *else* console.log('Detail must be id, first, last, or e')  
  
 *return* customers.length === updtCustomers.length;  
  
};  
  
*//--------------------------------------------------------------  
// Update a customer by detail [id] and attribute  
//--------------------------------------------------------------  
var* modifyCustomer = (idd,val1,det,val) => {  
 *var* customers = fetchCustomers();  
  
 *if* (idd === "id") {  
  
 *var* index = customers.findIndex(*function* (item, i) {  
 *return* item.id === val1  
 });  
 console.log(index);  
  
 *if*(index > -1){  
  
 *if* (det === "id") {  
 customers[index].id = val;  
 }  
 *else if* (det === "first") {  
 customers[index].firstName = val;  
 }  
 *else if* (det === "last") {  
 customers[index].lastName = val;  
 }  
 *else if* (det === "email") {  
 customers[index].email = val;  
 }*else* {  
 console.log('Detail must be id, first, last, or email');  
 *return false*;  
 }  
  
 console.log(index);  
 saveCustomers(customers);  
 }*else*{  
  
 console.log('No Customer available for Id' + index);  
 *return false*;  
 }  
  
 *return true*;  
 }  
}  
  
*//--------------------------------------------------------------*module.exports = {  
 addCustomer, getAll, removeCustomer, logCustomer,modifyCustomer  
};