Black Box test cases:

- Story #1: As an employee, I want to be able to place an order for a specific book so it can be sold to a particular student.
 - a. Valid/Invalid Input/output
 - Valid Input: Student Number (Numeric- 9 digits), ISBN-10 (Numeric-10 digits),
 Employee Number (Numeric-5 digits)
 - o **Valid Output:** Alphanumeric (Eg: "order placed, Order# 56690", "unable to place order", "employee/student num not found" etc)
 - Invalid Input: Characters a-z,A-Z, Special characters, Student Number (Numeric 9 < digits < 9), ISBN-10 (Numeric- 10 < digits < 10), Employee Number (Numeric- 5 < digits < 5)
 - o **Invalid Output:** program doesn't proceed, Program crashing
 - b. Equivalent Classes
 - o EC1 Student Number [100000001, 999999999]
 - o EC2 ISBN-10 [1000000001, 9999999999]
 - o EC3 Employee Number [10001, 99999]
 - c. Boundary Value Analysis

Input Type	InValid	Valid	InValid
Student #	100000000	167934082	1000000000
ISBN-10	1000000000	4672895719	1000000000
Employee #	10000	15561	100000

- d. Steps for testing
 - o Precondition: System (order placement software) is open/logged on to the main page
 - o Input: Book ISBN-10, Student Number, Employee Number
 - o Expected Output: Order Number
 - o Postcondition: System will go back to its original state main page.

TC1	TC2	TC3	TC4
Input 1: 167934082	Input 1: 5	Input 1: 5	Input 1: 167937080
Input 2: 4672895719	Input 2: 2	Input 2: 467985719	Input 2: 4672235783
Input 3: 15561	Input 3: 5A7	Input 3: 15781	Input 3: 12181
Output: "Order placed,	Output: INVALID	Output: INVALID	Output: "Student
Order# 56690"			Number Not Found"

- Story #2: As an employee, I want to be able to reserve an in-stock book for a student so they can come and purchase it later.
- Valid/Invalid Input/output
 - O Valid Input: Student Number (Numeric- 9 digits), ISBN-10 (Numeric-10 digits), Employee Number (Numeric-5 digits), E-mail (Alphanumeric username@uwindsor.ca)
 - Valid Output: Alphanumeric (Eg: "book reserved, reservation# 56690", "unable to reserve item", "employee/student num not found" etc), email reservation sent to username@uwindsor.ca.
 - Invalid Input: Special characters other than @, Student Number (Numeric 9 < digits <
 9), ISBN-10 (Numeric 10 < digits < 10), Employee Number (Numeric 5 < digits < 5), emails outside of Uwindsor (@uwindsor.ca)
 - o **Invalid Output:** program doesn't proceed, Program crashing
 - e. Equivalent Classes
 - o EC1 Student Number [100000001, 999999999]
 - o EC2 ISBN-10 [1000000001, 9999999999]
 - o EC3 Employee Number [10001, 99999]
 - f. Boundary Value Analysis

Input Type	InValid	Valid	InValid
Student #	100000000	167934082	1000000000
ISBN-10	1000000000	4672895719	10000000000
Employee #	10000	15561	100000

g. Steps for testing

- o Precondition: System (order placement software) is open/logged on to the main page
- o Input: Book ISBN-10, Student Number, Employee Number, e-mail address
- o Expected Output: Reservation number, e-mail sent!
- o Postcondition: System will go back to its original state main page.

TC1	TC2	TC3	TC4	TC5
Input 1:	Input 1: 5	Input 1: 5	Input 1:	Input 1:
167934082			167937082	167937154
Input 2:	Input 2: 2	Input 2:	Input 2:	Input 2:
4672895719		467985719	4672235719	4672235345
Input 3: 15561	Input 3: 5A7	Input 3: 15781	Input 3: 12181	Input 3: 16475
Input 4:	Input 4:	Input 4:	Input 4:	Input 4:
abc12@uwindsor.c	abc12@gmail.co	abc12@uwindsor.c	abc12@uwindsor.c	abcd@gmail.co
a	m	a	a	m
Output:	Output:	Output: INVALID	Output: "Student	Output:
"reservation made,	INVALID		Num Not Found"	INVALID
reservation#				
56690"				

- Story #3: As an employee, I want to be able to reserve an out-of-stock book for a student so they can come and purchase it later.
- Valid/Invalid Input/output
 - o **Valid Input:** Student Number (Numeric- 9 digits), ISBN-10 (Numeric-10 digits), Employee Number (Numeric-5 digits), E-mail (Alphanumeric username@uwindsor.ca)
 - O Valid Output: Alphanumeric (Eg: "book reserved, reservation# 56690, expected pickup date: 21-10-2022", "unable to reserve item", "employee/student num not found" etc), email reservation sent to username@uwindsor.ca.
 - Invalid Input: Special characters other than @, Student Number (Numeric 9 < digits <
 9), ISBN-10 (Numeric- 10 < digits < 10), Employee Number (Numeric- 5 < digits < 5), emails outside of Uwindsor (@uwindsor.ca)
 - o **Invalid Output:** program doesn't proceed, Program crashing
 - h. Equivalent Classes
 - o EC1 Student Number [100000001, 999999999]
 - o EC2 ISBN-10 [1000000001, 9999999999]
 - o EC3 Employee Number [10001, 99999]
 - i. Boundary Value Analysis

Input Type	InValid	Valid	InValid
Student #	100000000	167934082	1000000000
ISBN-10	1000000000	4672895719	10000000000
Employee #	10000	15561	100000

- i. Steps for testing
 - o Precondition: System (order placement software) is open/logged on to the main page
 - o Input: Book ISBN-10, Student Number, Employee Number, e-mail address
 - o Expected Output: Reservation number, e-mail sent!
 - o Postcondition: System will go back to its original state main page.

TC1	TC2	TC3	TC4	TC5
Input 1:	Input 1: 5	Input 1: 5	Input 1:	Input 1:
167934082			167937082	167937154
Input 2:	Input 2: 2	Input 2:	Input 2:	Input 2:
4672895719		467985719	4672235719	4672235345
Input 3: 15561	Input 3: 5A7	Input 3: 15781	Input 3: 12181	Input 3: 16475
Input 4:	Input 4:	Input 4:	Input 4:	Input 4:
abc12@uwindsor.c	abc12@gmail.co	abc12@uwindsor.c	abc12@uwindsor.c	abcd@gmail.co
a	m	a	a	m
Output:	Output:	Output: INVALID	Output: "Student	Output:
"Reservation	INVALID		Num Not Found"	INVALID
made,				

Reservation#		
56690"		

- Story #4: As an employee in the bookstore, I want to sell a book to a student so they may purchase a book.
- Valid/Invalid Input/output
 - O Valid Input: Student Number (Numeric- 9 digits), ISBN-10 (Numeric-10 digits), Employee Number (Numeric-5 digits), Student card code (Numeric-14 digits)
 - Valid Output: Alphanumeric (Eg: "order placed, receipt", "unable to place order", "employee/student num not found" etc)
 - Invalid Input: Characters a-z,A-Z, Special characters, Student Number (Numeric 9 < digits < 9), ISBN-10 (Numeric- 10 < digits < 10), Employee Number (Numeric- 5 < digits < 5), Student card code (Numeric 14 < digits < 14)
 - o Invalid Output: program doesn't proceed, Program crashing
 - k. Equivalent Classes
 - o EC1 Student Number [100000001, 999999999]
 - o EC2 ISBN-10 [1000000001, 9999999999]
 - o EC3 Employee Number [10001, 99999]
 - o EC4 Student card code [1000000000001, 999999999999]
 - 1. Boundary Value Analysis

Input Type	InValid	Valid	InValid
Student #	100000000	167934082	1000000000
ISBN-10	1000000000	4672895719	1000000000
Employee #	10000	15561	100000
Student card code	10000000000000	10034004500670	100000000000000

m. Steps for testing

- o Precondition: System (order placement software) is open/logged on to the main page
- o Input: Book ISBN-10, Student Number, Employee Number, Student Number Code
- o Expected Output: Receipt
- o Postcondition: System will go back to its original state main page.

TC1	TC2	TC3	TC4	TC5
Input 1:	Input 1: 5	Input 1: 5	Input 1:	Input 1:
167934082			167937082	167934082
Input 2:	Input 2: 2	Input 2:	Input 2:	Input 2:
4672895719		467985719	4672235719	4672895719

Input 3: 15561	Input 3: 5A7	Input 3: 15781	Input 3: 12181	Input 3: 15561
Input 4:	Input 4:	Input 4:	Input 4:	Input 4:
12345678910111	12345565677	12345678922611	12345678998761	12345565677
Output: "order	Output: INVALID	Output: INVALID	Output: "Student	Output: "Card
placed, Order#			Num Not Found"	code Invalid"
56690"				