



Informatics Institute of Technology

Object-Oriented Programming

5COSC019C.1

Coursework 1 Test Cases

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1 Test Cases for Console Application

Table 1 Test Case For Console part of the program

Test	Test Input	Expected Result	Actual Result	Pass/Fail
No.				
1.1	Login As:	Invalid choice.	Invalid choice.	Pass
	1. Manager	Please enter a	Please enter a	
	2. Customer	number between 1	number between	
	3. Exit	and 3.	1 and 3.	
	Enter your			
	choice:			
	32			
1.2	Login As:	Invalid input.	Invalid input.	Pass
	1. Manager	Please enter a	Please enter a	
	2. Customer	valid number.	valid number.	
	3. Exit			
	Enter your			
	choice:			
	string			
1.3	Login As:	Manager has been	Manager has	Pass
	1. Manager	chosen	been chosen	
	2. Customer			
	3. Exit			
	Enter your			
	choice:			
	1			
2.1	Enter	Invalid Password.	Invalid	Pass
	manager	Please try again.	Password. Please	
	password:		try again.	
	qwerty			
2.2	Enter	Authentication	Authentication	Pass
	manager	successful!	successful!	
	password:			
	admin123			
	No. 1.1 1.2 2.1	No. 1.1 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 32 1.2 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string 1.3 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string 1.3 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 1 2.1 Enter manager password: qwerty 2.2 Enter manager password:	No. 1.1 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 32 1.2 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string 1.3 Login As: Invalid input. Please enter a valid number. 3. Exit Enter your choice: string 1.3 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string 1.3 Login As: Invalid number. 2. Customer 3. Exit Enter your choice: 1 Invalid Password. Please try again. 2.1 Enter manager password: qwerty 2.2 Enter Muthentication successful!	No. 1.1 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 32 1.2 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: 32 1.2 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string 1.3 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string 1.3 Login As: 1. Manager 2. Customer 3. Exit Enter your choice: string 1. Manager 2. Customer 3. Exit Enter your choice: string 1. Manager 2. Customer 3. Exit Enter your choice: 1 Invalid Password. Invalid Password: password: qwerty 2.2 Enter Authentication successful!

Add a new	3.1.1	Enter your	Invalid input.	1.	Pass
product		choice:	Please enter a	Electronic	
		asd	valid number.	2.	
				Clothing	
				Choose an option	
				[1, 2]:	
	3.1.2	Enter your	Invalid choice.	Invalid choice.	pass
		choice:	Please enter a	Please enter a	
		8	number between 1	number between	
			and 5.	1 and 5.	
	3.1.3	Enter your	Choose product	Choose product	pass
		choice:	type to add:	type to add:	
		1	1.	1.	
			Electronics	Electronics	
			2.	2.	
			Clothing	Clothing	
			Enter your choice:	Enter your	
				choice:	
	3.2.1	Choose	Invalid choice.	Invalid choice.	Pass
		product type	Please enter a	Please enter a	
		to add:	number between 1	number between	
		1.	and 2.	1 and 2.	
		Electronics			
		2. Clothing			
		Enter your			
		choice:4			
	3.2.2	Choose	Invalid input.	Invalid input.	Pass
		product type	Please enter a	Please enter a	
		to add:	valid number.	valid number.	
		1.			
		Electronics			
		2. Clothing			

	Enter your			
	choice:asd			
3.2.3	Choose	Enter product	Enter product	Pass
3.2.3	product type	details for	details for	1 435
	to add:	Electronics:	Electronics:.	
	1.	Electronics.	Electronics	
	Electronics			
	2. Clothing			
	Enter your			
	choice:1			_
3.3.1	Enter	Wrong ID format.	Wrong ID	Pass
	Product ID	Please enter a	format. Please	
	(must start	valid Electronics	enter a valid	
	with 'A'	product ID.	Electronics	
	followed by		product ID.	
	at least 3			
	digits):			
	d321			
3.3.2	Enter	Input must be at	Input must be at	Pass
	Product ID	least 4 characters	least 4 characters	
	(must start	long. Please try	long. Please try	
	with 'A'	again.	again.	
	followed by			
	at least 3			
	digits):			
	321			
3.3.3	Enter	Enter Product	Enter Product	Pass
	Product ID	Name:	Name:.	
	(must start			
	with 'A'			
	followed by			
	1011011041 09			

	at least 3			
	digits):			
	a123			
	a123			
2.2.4	T. (F (P 1 (E (D 1 (D
3.3.4	Enter	Enter Product		Pass
	Product ID	Name:	Name:.	
	(must start			
	with 'A'			
	followed by			
	at least 3			
	digits):			
	A123			
3.4.1	Enter	Enter Available	Enter Available	Pass
	Product	Number of Items:	Number of	
	Name:		Items:	
	phone			
3.4.1	Enter	Invalid choice.	Invalid choice.	Pass
	Available	Please enter a	Please enter a	
	Number of	number between 1	number between	
	Items: 0	and 1000.	1 and 1000.	
3.4,2	Enter	Enter Price of	Enter Price of	Pass
	Available	Item:	Item:	
	Number of			
	Items: 12			
3.5.1	Enter Price	Invalid price.	Invalid price.	Pass
	of Item:0	Please enter a	Please enter a	
		non-zero value.	non-zero value.	
3.5.2	Enter Price	Invalid price.	Invalid price.	Pass
	of Item:	Please enter a	Please enter a	
	-98	non-negative	non-negative	
		value.	value.	
1	l		l	

Enter Price	Value accepted	Value accepted	Pass
of Item:	then	then	
350	Enter Item Brand	Enter Item Brand	
	Name:	Name:	
Enter Item	Value accepted	Value accepted	Pass
Brand	Then	Then Enter Item	
Name:	Enter Item	Warranty Period	
dell	Warranty Period	(in weeks)	
	(in weeks)		
Enter Item	Invalid input.	Invalid input.	Pass
Warranty	Please enter a	Please enter a	
Period (in	valid number.	valid number.	
weeks):			
get			
Enter Item	Invalid choice.	Invalid choice.	Pass
Warranty	Please enter a	Please enter a	
Period (in	number between 0	number between	
weeks):	and 1000.	0 and 1000.	
-9			
Enter Item	Electronics	Electronics	Pass
Warranty	product added	product added	
Period (in	successfully!	successfully!	
weeks):			
12			
Enter your	Value accepted,	Value accepted,	Pass
choice:	Available Product	Available	
2	IDs: saved values	Product IDs:	
		saved values	
i	i	Ì	l
	of Item: 350 Enter Item Brand Name: dell Enter Item Warranty Period (in weeks): get Item Warranty Period (in weeks): -9 Item Warranty Period (in weeks): -12 Item Item Item Item Item Item Item Item	of Item: then 350 Enter Item Brand Name: Enter Item Value accepted Then Name: Enter Item dell Warranty Period (in weeks): Enter Item Invalid input. Warranty Please enter a valid number. Warranty Please enter a Period (in umber between 0 and 1000. -9 Enter Item Electronics Warranty product added Period (in successfully! weeks): 12 Enter your Value accepted, choice: Value accepted, Available Product	of Item: then then sand then same: Name: Name: Name: Enter Item Value accepted Then Enter Item Brand Name: Value accepted Then Enter Item Name: Enter Item Warranty Period (in weeks) Enter Item Invalid input. Invalid input. Please enter a Period (in valid number. valid number. weeks): get Please enter a Product (in number between 0 and 1000. Enter Item Electronics Warranty product added Period (in successfully! Successfully! Successfully! Successfully! Enter your Value accepted, Choice: Available Product Available Product IDs: Product IDs:

	4.1.2	Enter	Invalid Product	Invalid Product	Pass
		Product ID	ID. Please enter a	ID. Please enter a	
		to delete: id	valid ID.	valid ID.	
		that is not in			
		the list			
	4.1.3	Enter	Are you sure you	Are you sure you	pass
		Product ID	want to delete this	want to delete	
		to delete: id	product? (Y/N)	this product?	
		that is in the		(Y/N)	
		list			
	4.1.4	Are you sure	Invalid choice.	Invalid choice.	pass
		you want to	Please try again.	Please try again.	
		delete this	Are you sure you	Are you sure you	
		product?	want to delete this	want to delete	
		(Y/N)	product? (Y/N)	this product?	
		S		(Y/N)	
	4.1.4	Are you sure	Deleted product	IDeleted product	pass
		you want to	information:	information:	
		delete this	Product deleted	Product deleted	
		product?	successfully!	successfully!	
		(Y/N)	Total number of	Total number of	
		у	products left in the	products left in	
			system:	the system:	
	4.1.4	Are you sure	Deletion canceled	Deletion	pass
		you want to		canceled	
		delete this			
		product?			
		(Y/N)			
		n			
Display	5	Enter your	=== Product List	=== Product List	pass
Product List		choice:	===	===	
		3	with all the	with all the	
			product	product	

			information that	information that	
			has been saved	has been saved	
Save	6	Enter your	===Product	===Product	pass
Products to		choice:	details saved to	details saved to	
File		4	file	file	
			successfully!===	successfully!===	
Exit	7	Enter your	Exiting program	Exiting	pass
		choice:		program	
		5			
Customer	8	Login As:	Accepted value	Accepted value	pass
register		1. Manager	Do you have an	Do you have an	
		2. Customer	account?	account?	
		3. Exit	1. Yes	1. Yes	
		Enter your	2. No	2. No	
		choice:	Enter your choice:	Enter your	
		2		choice:	
	8.1.1	Do you have	Register Menu	Register Menu	pass
		an account?			
		1. Yes	Enter a new	Enter a new	
		2. No	username:	username:	
		Enter your			
		choice:			
		2			
	8.1.1.1	Enter a new	Accepted, Enter a	Accepted, Enter	pass
		username:	password (at least	a password (at	
		steve	6 characters):	least 6	
				characters):	
	8.1.2	Accepted ,	Input must be at	Input must be at	pass
		Enter a	least 6 characters	least 6 characters	
		password (at	long. Please try	long. Please try	
		least 6	again.	again.	

		characters):			
		qwe			
	8.1.3	Accepted ,	User registration	User registration	pass
		Enter a	successful!	successful!	
		password (at	Shopping Center	Shopping Center	
		least 6	GUI created	GUI created	
		characters):			
		dillon123			
	8.1.1.2	Enter a new	Username already	Username	pass
		username:	exists. Do you	already exists.	
		user name	want to login	Do you want to	
		that already	instead?	login instead?	
		exist	1. Yes	1. Yes	
			2. No	2. No	
			Enter your choice:	Enter your	
				choice:	
Customer	9	Login As:	Do you have an	Do you have an	pass
login		1. Manager	account?	account?	
		2. Customer	1. Yes	1. Yes	
		3. Exit	2. No	2. No	
		Enter your	Enter your choice:	Enter your	
		choice:		choice:	
		2			
	9.1.1	Do you have	Accepted value	Accepted value	pass
		an account?	Login Menu	Login Menu	
		1. Yes	Enter a new	Enter a new	
		2. No	username:	username:	
		Enter your			
		choice:			
		1			
	9.1.1.1	Accepted	Enter your	Enter your	pass
		value	password:	password:	
		Login Menu			

	Enter a new username: incorrect user name			
9.1.1.2	Enter your password: incorrect password	Incorrect username or password.	Incorrect username or password.	pass
9.1.2.1	Accepted value Login Menu Enter a new username: correct user name	Enter your password:	Enter your password:	pass
	Enter your password: correct password	Login successful! Shopping Center GUI created	Login successful! Shopping Center GUI created.	pass

2 Test Cases for GUI Application

Table 2 Test Case For GUI part of the program

Test Component	Test No.	Test Input	Expected Result	Actual Result	Pass/Fail
Category Selection from the dropdown	1.1	Choose Category as "All"	All the items in the system are in alphabetical order.	All the items in the system are in alphabetical order.	pass
	1.2	Choose the Category as "Electronic"	All the Electronic items in the system are in alphabetical order.	All the Electronic items in the system are in alphabetical order.	pass
	1.3	Choose Category as "Clothing."	All the Clothing items in the system are in alphabetical order.	All the Clothing items in the system are in alphabetical order.	pass
Select an item in the table	2.1	Select a row in the product table. (stock is more than 3)	The row highlighted with blue colour and information display area got updated.	The row highlighted with blue colour and information display area got updated.	Pass
		Select a row in the product table. (stock is less than 3)	The row highlighted with red colour and information display area got updated.	The row highlighted with red colour and information display area got updated.	pass
Click add to cart	3.1	Click add to cart after selecting a product	The item getting updated in the cart.	The item getting updated in the cart.	pass
	3.2	Click add to cart without selecting an item	A warning message pop-up	A warning message pop-up	pass

			saying No item selected. Please select an item to add to the shopping cart.	saying No item selected. Please select an item to add to the shopping cart.	
	3.3	Click add to cart on an item that has 0 availability	A warning message pop-up saying the Selected item is not available.	A warning message pop-up saying the Selected item is not available.	pass
Total and discounts	4.1	The user buys at least three items from the same category.	The 20% discount is being calculated.	The 20% discount is being calculated.	pass
	4.2	First-time user buys products.	10% discount is getting calculated.	10% discount is getting calculated.	pass
Application when getting closed	5.1	User closes the application.	The GUI closes, saving the current product details to the file	The Gui closes, saving the current product details to the file	pass