“New Inventory Item”

Input:

Inventory Name: Mauve Shirt

Inventory Department: Shirts

Inventory Price: 15

Inventory Quantity: 100

Output:

No Inventory ID

Inventory Name: Mauve Shirt

Department: Shirts

Inventory Price: 15.0

Inventory Quantity: 100.0

Inventory Value: 1500.0

“Output Current Inventory Item”

Output:

No Inventory ID

Inventory Name: Mauve Shirt

Department: Shirts

Inventory Price: 15.0

Inventory Quantity: 100.0

Inventory Value: 1500.0

“Add Current Inventory Item to Database”

Output:

Inventory ID: 6

Inventory Name: Mauve Shirt

Department: Shirts

Inventory Price: 15.0

Inventory Quantity: 100.0

Inventory Value: 1500.0

“Add New Inventory Item to Database”

Input:

Inventory Name: Blue Pants

Inventory Department: Pants

Inventory Price: 25

Inventory Quantity: 200

Output:

Inventory ID: 7

Inventory Name: Blue Pants

Department: Pants

Inventory Price: 25.0

Inventory Quantity: 200.0

Inventory Value: 5000.0

“Retrieve Inventory Item from Database”

Input:

Inventory ID: 6

Output:

Inventory ID: 6

Inventory Name: Mauve Shirt

Department: Shirts

Inventory Price: 15.0

Inventory Quantity: 100.0

Inventory Value: 1500.0

Input:

Inventory ID: 7

Output:

Inventory ID: 7

Inventory Name: Blue Pants

Department: Pants

Inventory Price: 25.0

Inventory Quantity: 200.0

Inventory Value: 5000.0

“Alter Current Inventory Item”

Input:

Inventory Name: Blue Skirt

Inventory Department: Skirts

Inventory Price: 30

Inventory Quantity: 100

Output:

Inventory ID: 7

Inventory Name: Blue Skirt

Department: Skirts

Inventory Price: 30.0

Inventory Quantity: 100.0

Inventory Value: 3000.0

“Alter Current Inventory Item Quantity”

Input:

Inventory Quantity: 40

Output:

Inventory ID: 7

Inventory Name: Blue Skirt

Department: Skirts

Inventory Price: 30.0

Inventory Quantity: 40.0

Inventory Value: 1200.0

“Commit Alterations to Current Inventory Item to Database”

Check output to database with “Retrieve Inventory Item from Database”

Input:

Inventory ID 7

Output:

Inventory ID: 7

Inventory Name: Blue Skirt

Department: Skirts

Inventory Price: 30.0

Inventory Quantity: 40.0

Inventory Value: 1200.0

“Delete Current Inventory Item”

Output:

Inventory Item Deleted

Check for deletion with “Retrieve Inventory Item from Database” to see if rows are deleted.

“Delete Selected Inventory Item”

Input:

Inventory ID: 6

Output:

Inventory Item Deleted

Check for deletion with “Retrieve Inventory Item from Database” to see if rows are deleted.

“Inventory List”

Output:

Inventory ID, Inventory Name, Department, Price, Quantity, Value

(1, 'Black Shirt', 'Shirts', 20.0, 40.0, 800.0)

(2, 'Red Shirt', 'Shirts', 20.0, 40.0, 800.0)

(3, 'Blue Shirt', 'Shirts', 20.0, 40.0, 800.0)

(4, 'Purple Shirt', 'Shirts', 20.0, 40.0, 800.0)

(5, 'Green Shirt', 'Shirts', 20.0, 40.0, 800.0)

“New User”

Input:

User Name: Layne

User Email: [layne@layne.layne](mailto:layne@layne.layne)

User Password: LayneIsLayne

User Credit Card: 0003000300030003

User City: Layneville

User State: Laynia

User Country: United Laynes of Layne

User Address: 1111 Layne Lane

User Phone: 3333333333

Output:

No User ID

User Name: Layne

User Email: [layne@layne.layne](mailto:layne@layne.layne)

User Password: LayneIsLayne

User Credit Card: 0003000300030003

User City: Layneville

User State: Laynia

User Country: United Laynes of Layne

User Address: 1111 Layne Lane

User Phone: 3333333333

“Output Current User”

Output:

No User ID

User Name: Layne

User Email: [layne@layne.layne](mailto:layne@layne.layne)

User Password: LayneIsLayne

User Credit Card: 0003000300030003

User City: Layneville

User State: Laynia

User Country: United Laynes of Layne

User Address: 1111 Layne Lane

User Phone: 3333333333

“Add Current User to Database”

Output:

User ID: 3

User Name: Layne

User Email: [layne@layne.layne](mailto:layne@layne.layne)

User Password: LayneIsLayne

User Credit Card: 0003000300030003

User City: Layneville

User State: Laynia

User Country: United Laynes of Layne

User Address: 1111 Layne Lane

User Phone: 3333333333

“Add New User to Database”

Input:

User Name: Man

User Email: [mayne@mayne.mayne](mailto:mayne@mayne.mayne)

User Password: ManIsMan

User Credit Card: 0000000000000000

User City: Manville

User State: Mania

User Country: United Mans of Man

User Address: 1111 Man Lane

User Phone: 0000000000

Output:

User ID: 4

User Name: Man

User Email: [mayne@mayne.mayne](mailto:mayne@mayne.mayne)

User Password: ManIsMan

User Credit Card: 0000000000000000

User City: Manville

User State: Mania

User Country: United Mans of Man

User Address: 1111 Man Lane

User Phone: 0000000000

“Retrieve User”

Input:

User ID: 3

Output:

User ID: 3

User Name: Layne

User Email: [layne@layne.layne](mailto:layne@layne.layne)

User Password: LayneIsLayne

User Credit Card: 0003000300030003

User City: Layneville

User State: Laynia

User Country: United Laynes of Layne

User Address: 1111 Layne Lane

User Phone: 3333333333

Input:

User ID: 4

Output:

User ID: 4

User Name: Man

User Email: [mayne@mayne.mayne](mailto:mayne@mayne.mayne)

User Password: ManIsMan

User Credit Card: 0000000000000000

User City: Manville

User State: Mania

User Country: United Mans of Man

User Address: 1111 Man Lane

User Phone: 0000000000

“Update Current user Information”

Input:

User Name: Mayne

User Password: ManIsNotMan

User Credit Card: 0004000400040004

User City: Mayneville

User State: Maynia

User Country: United Maynes of Mayne

User Address: 1111 Mayne Lane

User Phone: 4444444444

Output:

User ID: 4

User Name: Mayne

User Email: [mayne@mayne.mayne](mailto:mayne@mayne.mayne)

User Password: ManIsNotMan

User Credit Card: 0004000400040004

User City: Mayneville

User State: Maynia

User Country: United Maynes of Mayne

User Address: 1111 Mayne Lane

User Phone: 4444444444

“Commit Alterations to Current User to Database”

Check if commits work with “Retrieve User”

Input:

Inventory ID 4

Output:

User ID: 4

User Name: Mayne

User Email: [mayne@mayne.mayne](mailto:mayne@mayne.mayne)

User Password: ManIsNotMan

User Credit Card: 0004000400040004

User City: Mayneville

User State: Maynia

User Country: United Maynes of Mayne

User Address: 1111 Mayne Lane

User Phone: 4444444444

“Update Current User Password”

Input:

User Password: MayneIsMayne

Output:

User ID: 4

User Name: Mayne

User Email: [mayne@mayne.mayne](mailto:mayne@mayne.mayne)

User Password: MayneIsMayne

User Credit Card: 0004000400040004

User City: Mayneville

User State: Maynia

User Country: United Maynes of Mayne

User Address: 1111 Mayne Lane

User Phone: 4444444444

“Commit Reset Password of Current User to Database”

Check if commits work with “Retrieve User”

Input:

User ID: 4

Output:

User ID: 4

User Name: Mayne

User Email: [mayne@mayne.mayne](mailto:mayne@mayne.mayne)

User Password: MayneIsMayne

User Credit Card: 0004000400040004

User City: Mayneville

User State: Maynia

User Country: United Maynes of Mayne

User Address: 1111 Mayne Lane

User Phone: 4444444444

“Delete Current User”

Output:

User Deleted

Check for deletion with “Retrieve User” to see if rows are deleted.

“Delete Selected User”

Input:

User ID: 3

Output:

User Deleted

Check for deletion with “Retrieve User” to see if rows are deleted.

“User Login”

Input:

Email: wayne@wayne.wayne

User Password: WayneIsWayne

Output:

User ID: 1

User Name: Wayne

User Email: [wayne@wayne.wayne](mailto:wayne@wayne.wayne)

User Password: WayneIsWayne

User Credit Card: 0001000100010001

User City: Wayneville

User State: Waynia

User Country: United Waynes of Wayne

User Address: 1111 Wayne Lane

User Phone: 1111111111

“User List”

Output:

User ID, User Name, Email, Password, Credit Card, City, State, Country, Address, Phone

(1, 'Wayne', 'wayne@wayne.wayne', 'WayneIsWayne', '0001000100010001', 'Wayneville', 'Waynia', 'United Waynes of Wayne', '1111 Wayne Lane', '1111111111')

(2, 'Jayne', 'jayne@jayne.jayne', 'JayneIsJayne', '0002000200020002', 'Layneville', 'Laynia', 'United Laynes of Layne', '1111 Layne Layne', '2222222222')

“New Order”

Output:

No Order ID

User ID: 1

Credit Card: 0001000100010001

City: Wayneville

State: Waynia

Country: United Waynes of Wayne

Address: 1111 Wayne Lane

No Items

No Price Per Item

No Quantity Per Item

No Cost Per Item

No Original Quantity Per Item

No Altered Quantity Per Item

No Total Cost

No Date

“Output Order”

Output:

No Order ID

User ID: 1

Credit Card: 0001000100010001

City: Wayneville

State: Waynia

Country: United Waynes of Wayne

Address: 1111 Wayne Lane

No Items

No Price Per Item

No Quantity Per Item

No Cost Per Item

No Original Quantity Per Item

No Altered Quantity Per Item

No Total Cost

No Date

“Retrieve Order”

Input:

Order ID: 1

Output:

Order ID: 1

User ID: 1

Credit Card: 1000100010001000

City: Changeville

State: Changia

Country: United Changes of Change

Address: 1111 Change Lane

Items: {1, 2}

Price Per Item: {1: 20.0, 2: 20.0}

Quantity Per Item: {1: 20.0, 2: 20.0}

Cost Per Item: {1: 400.0, 2: 400.0}

Original Quantity Per Item: {1: 40.0, 2: 40.0}

Original Value Per Item: {1: 800.0, 2: 800.0}

Altered Quantity Per Item: {1: 20.0, 2: 20.0}

Altered Value Per Item: {1: 400.0, 2: 400.0}

Total Cost: 800.0

Date: 2023-05-13

Input:

Order ID: 2

Output:

Order ID: 2

User ID: 2

Credit Card: 0002000200020002

City: Layneville

State: Laynia

Country: United Laynes of Layne

Address: 1111 Layne Layne

Items: {3, 4}

Price Per Item: {3: 20.0, 4: 20.0}

Quantity Per Item: {3: 20.0, 4: 20.0}

Cost Per Item: {3: 400.0, 4: 400.0}

Original Quantity Per Item: {3: 40.0, 4: 40.0}

Original Value Per Item: {3: 800.0, 4: 800.0}

Altered Quantity Per Item: {3: 20.0, 4: 20.0}

Altered Value Per Item: {3: 400.0, 4: 400.0}

Total Cost: 800.0

Date: 2023-05-13

“Set Address”

Input:

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: United Jaynes of Jayne

Output:

No Order ID

User ID: 1

Credit Card: 0001000100010001

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

No Items

No Price Per Item

No Quantity Per Item

No Cost Per Item

No Original Quantity Per Item

No Original Value Per Item

No Altered Quantity Per Item

No Altered Value Per Item

No Total Cost

No Date

“Set Pay Method”

Input:

Credit Card: 0002000200020002

Output:

No Order ID

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

No Items

No Price Per Item

No Quantity Per Item

No Cost Per Item

No Original Quantity Per Item

No Original Value Per Item

No Altered Quantity Per Item

No Altered Value Per Item

No Total Cost

No Date

“Add Current Item”

First obtain an inventory object

Input:

Quantity: 10

Output:

No Order ID

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

Items: {5}

Price Per Item: {5: 20.0}

Quantity Per Item: {5: 10.0}

Cost Per Item: {5: 200.0}

Original Quantity Per Item: {5: 40.0}

Original Value Per Item: {5: 800.0}

Altered Quantity Per Item: {5: 30.0}

Altered Value Per Item: {5: 600.0}

Total Cost: 200.0

No Date

“Add Item Through ID”

Input:

Inventory ID: 4

Quantity: 20

Output:

No Order ID

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

Items: {4, 5}

Price Per Item: {5: 20.0, 4: 20.0}

Quantity Per Item: {5: 10.0, 4: 20.0}

Cost Per Item: {5: 200.0, 4: 400.0}

Original Quantity Per Item: {5: 40.0, 4: 40.0}

Original Value Per Item: {5: 800.0, 4: 800.0}

Altered Quantity Per Item: {5: 30.0, 4: 20.0}

Altered Value Per Item: {5: 600.0, 4: 400.0}

Total Cost: 600.0

No Date

“Remove Current Inventory Item”

Output:

No Order ID

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

Items: {4}

Price Per Item: {4: 20.0}

Quantity Per Item: {4: 20.0}

Cost Per Item: {4: 400.0}

Original Quantity Per Item: {4: 40.0}

Original Value Per Item: {4: 800.0}

Altered Quantity Per Item: {4: 20.0}

Altered Value Per Item: {4: 400.0}

Total Cost: 400.0

No Date

“Remove Inventory Item With ID”

Input:

Inventory ID: 4

Output:

No Order ID

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

No Items

No Price Per Item

No Quantity Per Item

No Cost Per Item

No Original Quantity Per Item

No Original Value Per Item

No Altered Quantity Per Item

No Altered Value Per Item

No Total Cost

No Date

“Change Current Inventory Item Quantity”

Redo “Add Current Item” and “Add Item Through ID” to reverse the removals

Input:

Quantity: 20

Output:

No Order ID

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

Items: {4, 5}

Price Per Item: {5: 20.0, 4: 20.0}

Quantity Per Item: {5: 20.0, 4: 20.0}

Cost Per Item: {5: 400.0, 4: 400.0}

Original Quantity Per Item: {5: 40.0, 4: 40.0}

Original Value Per Item: {5: 800.0, 4: 800.0}

Altered Quantity Per Item: {5: 20.0, 4: 20.0}

Altered Value Per Item: {5: 400.0, 4: 400.0}

Total Cost: 800.0

No Date

“Change Inventory Item Quantity with ID”

Input:

Inventory ID: 4

Quantity: 10

Output:

No Order ID

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

Items: {4, 5}

Price Per Item: {5: 20.0, 4: 20.0}

Quantity Per Item: {5: 20.0, 4: 10.0}

Cost Per Item: {5: 400.0, 4: 200.0}

Original Quantity Per Item: {5: 40.0, 4: 40.0}

Original Value Per Item: {5: 800.0, 4: 800.0}

Altered Quantity Per Item: {5: 20.0, 4: 30.0}

Altered Value Per Item: {5: 400.0, 4: 600.0}

Total Cost: 600.0

No Date

“Finalize Order”

Output:

Order ID: 3

User ID: 1

Credit Card: 0002000200020002

City: Jayneville

State: Jaynia

Country: United Jaynes of Jayne

Address: 1111 Jayne Lane

Items: {4, 5}

Price Per Item: {5: 20.0, 4: 20.0}

Quantity Per Item: {5: 20.0, 4: 10.0}

Cost Per Item: {5: 400.0, 4: 200.0}

Original Quantity Per Item: {5: 40.0, 4: 40.0}

Original Value Per Item: {5: 800.0, 4: 800.0}

Altered Quantity Per Item: {5: 20.0, 4: 30.0}

Altered Value Per Item: {5: 400.0, 4: 600.0}

Total Cost: 600.0

Date: 2023-05-14

“Order List”

Output:

Order ID, User ID, Credit Card, City, State, Country, Address, Items, Price Per Item, Quantity Per Item, Cost Per Item, Original Quantity Per Item, Original Value Per Item, Altered Quantity Per Item, Altered Value Per Item, Total Cost, Date

(1, 1, '1000100010001000', 'Changeville', 'Changia', 'United Changes of Change', '1111 Change Lane', '{1, 2}', '{1: 20.0, 2: 20.0}', '{1: 20.0, 2: 20.0}', '{1: 400.0, 2: 400.0}', '{1: 40.0, 2: 40.0}', '{1: 800.0, 2: 800.0}', '{1: 20.0, 2: 20.0}', '{1: 400.0, 2: 400.0}', 800.0, '2023-05-13')

(2, 2, '0002000200020002', 'Layneville', 'Laynia', 'United Laynes of Layne', '1111 Layne Layne', '{3, 4}', '{3: 20.0, 4: 20.0}', '{3: 20.0, 4: 20.0}', '{3: 400.0, 4: 400.0}', '{3: 40.0, 4: 40.0}', '{3: 800.0, 4: 800.0}', '{3: 20.0, 4: 20.0}', '{3: 400.0, 4: 400.0}', 800.0, '2023-05-13')

(3, 1, '0002000200020002', 'Jayneville', 'Jaynia', 'United Jaynes of Jayne', '1111 Jayne Lane', '{4, 5}', '{5: 20.0, 4: 20.0}', '{5: 20.0, 4: 10.0}', '{5: 400.0, 4: 200.0}', '{5: 40.0, 4: 40.0}', '{5: 800.0, 4: 800.0}', '{5: 20.0, 4: 30.0}', '{5: 400.0, 4: 600.0}', 600.0, '2023-05-14')

Check if inventory was automatically altered in response to the order through “Inventory List.”

Output:

Inventory ID, Inventory Name, Department, Price, Quantity, Value

(1, 'Black Shirt', 'Shirts', 20.0, 40.0, 800.0)

(2, 'Red Shirt', 'Shirts', 20.0, 40.0, 800.0)

(3, 'Blue Shirt', 'Shirts', 20.0, 40.0, 800.0)

(4, 'Purple Shirt', 'Shirts', 20.0, 30.0, 600.0)

(5, 'Green Shirt', 'Shirts', 20.0, 20.0, 400.0)