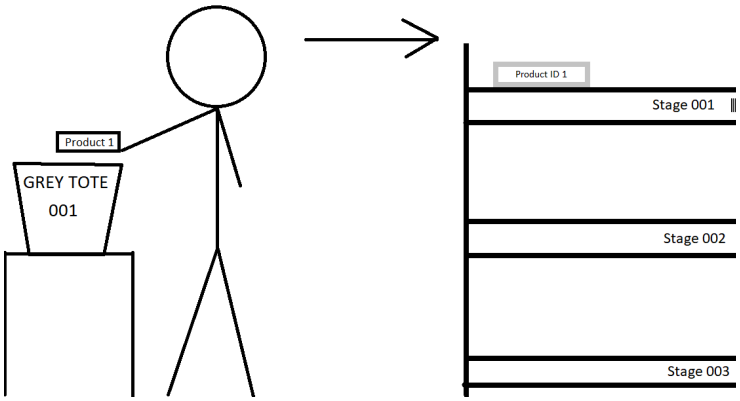


Overview: For this part, the worker will begin scanning parts from the tote box to the shelfs. Use Implementation 2: Shipping Customer Order Step 3 as reference.

Code Used:
Oracle_Connection.py
Input_Command.py

- **Methods Used**
- read_command()
- staging_parts()
- move_to_staging()

Step 1: Once there are parts in a grey tote, then the worker will start moving those parts from their box to the shelfs. They will first have to navigate through their device to the “Stage Items” window.

```
Application Started
1. Start Picking
2. Stage Items
3. Process Orders
4. Move Parts
5. Process Receiving Items
0. Exit Program
Enter your Command: 2
```

Step 2: From there, the worker will be prompted to scan a grey tote with parts in them.

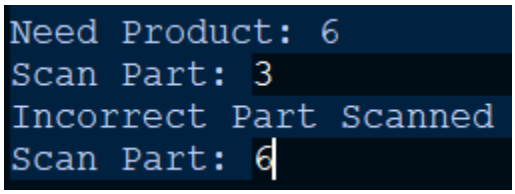
The image below is a reference for what grey totes currently have parts in them

ZONE	PRODUCT_ID	QTY
GREY_TOTE_100	6	3
GREY_TOTE_100	7	6
GREY_TOTE_100	8	4
GREY_TOTE_100	9	1
GREY_TOTE_100	10	3
GREY_TOTE_100	12	1
GREY_TOTE_100	15	6
GREY_TOTE_101	11	1
GREY_TOTE_101	12	3
GREY_TOTE_101	13	1

	ZONE	QTY
1	GREY_TOTE_100	24
2	GREY_TOTE_101	5

For the worker, when they receive their totes, the names will already be in them. All they have to do is write it in or scan the id. In this case we will use GREY_TOTE_100 and scan out parts from them to the shelves

Step 3: From here, the user will be prompted to scan parts from the tote one by one.
In the image below, I need product id 6. I put in the wrong value the first time, but I'm prompted again to scan the correct part.



Step 4: From here the worker will look for an available shelf and scan the location.

Note: The image below shows you that there's already parts on the shelves. To make it easier to see a change, we will be moving our parts to between STAGE_015 and STAGE_016

	ORDER_ID	PRODUCT_ID	QTY	BIN	ZONE
1	7	11	1	STAGE	STAGE_001
2	13	11	1	STAGE	STAGE_002
3	15	9	2	STAGE	STAGE_005
4	13	10	1	STAGE	STAGE_005
5	4	5	1	STAGE	STAGE_010
6	15	5	1	STAGE	STAGE_022
7	16	10	2	STAGE	STAGE_025
8	15	5	1	STAGE	STAGE_030
9	15	5	2	STAGE	STAGE_040
10	8	6	1	STAGE	STAGE_041

As shown below, the worker will scan the product's new location, in this case it will be STAGE_015. Note that it will only count the parts 1 at a time, so the worker will scan the same part into the shelves if there are more than 1.

```
Scan Part: 6
Scan Stage Area: STAGE_015
```

Step 4: The worker will be prompted repeatedly until all parts have been scanned from the tote. In this image, it shows that I've scan 3 product id 6 into shelf STAGE_015.

```
Need Product: 6
Scan Part: 3
Incorrect Part Scanned
Scan Part: 6
Scan Stage Area: STAGE_015
Need Product: 6
Scan Part: 6
Scan Stage Area: STAGE_015
Need Product: 6
Scan Part: 6
Scan Stage Area: STAGE_015
Need Product: 7
Scan Part:
```

In this image, it now shows that I've scanned 3 products into shelf STAGE_015 as I intended.

	ORDER_ID	PRODUCT_ID	QTY	BIN	ZONE
1	7	11	1	STAGE	STAGE_001
2	13	11	1	STAGE	STAGE_002
3	15	9	2	STAGE	STAGE_005
4	13	10	1	STAGE	STAGE_005
5	4	5	1	STAGE	STAGE_010
6	8	6	3	STAGE	STAGE_015
7	15	5	1	STAGE	STAGE_022
8	16	10	2	STAGE	STAGE_025
9	15	5	1	STAGE	STAGE_030
10	15	5	2	STAGE	STAGE_040
11	8	6	1	STAGE	STAGE_041

We will now continue to scan our items onto the shelves, until we are prompted again to scan a tote. In this case, I inputted the same grey tote number into my input, and I was prompted that the tote is incorrect or empty.

```
Scan Part: 15
Scan Stage Area: STAGE_015
Need Product: 15
Scan Part: 15
Scan Stage Area: STAGE_015
Scan Tote: GREY_TOTE_100
Incorrrect Tote Or Tote Is Empty
```

Final Notes: Now I will demonstrate how it looks in the database. It displays now that there are no grey tote 100 with parts in them.

ZONE	PRODUCT_ID	QTY
GREY_TOTE_101	11	1
GREY_TOTE_101	12	3
GREY_TOTE_101	13	1

	ZONE	QTY
1	GREY_TOTE_101	5

My order_list table is updated to show that the parts were moved to stage 015 or stage 016

	ORDER_ID	PRODUCT_ID	QTY	BIN	ZONE
1	7	11	1	STAGE	STAGE_001
2	13	11	1	STAGE	STAGE_002
3	15	9	2	STAGE	STAGE_005
4	13	10	1	STAGE	STAGE_005
5	4	5	1	STAGE	STAGE_010
6	8	6	3	STAGE	STAGE_015
7	9	8	2	STAGE	STAGE_015
8	11	12	1	STAGE	STAGE_015
9	12	15	5	STAGE	STAGE_015
10	14	15	1	STAGE	STAGE_015
11	8	7	2	STAGE	STAGE_016
12	16	7	4	STAGE	STAGE_016
13	9	8	2	STAGE	STAGE_016
14	9	9	1	STAGE	STAGE_016
15	7	10	2	STAGE	STAGE_016
16	13	10	1	STAGE	STAGE_016
17	15	5	1	STAGE	STAGE_022
18	16	10	2	STAGE	STAGE_025