

## **Project Definition: Airport Luggage Management System**

### **Project Explanation:**

- This Project is related to the Airport Luggage Management System where the Passenger Checks In their luggage. The Luggage is given a tag containing Name of owner, its type and its weight. Further the luggage is loaded in the Airbus in an ordered manner.
- Now, when the flight reaches the destination, the luggage is unloaded from the flight and sent to the luggage reclaiming area where luggage is continuously coming on conveyer. The Passengers stands there and waits for their luggage and when their luggage is recognized, they will take them otherwise they'll let it go.
- By Mistake if someone misses the chance to take the luggage, it will arrive at the end. Till that Passenger waits and after the luggage arrival is completed in an order, their luggage arrives again and they can now take their luggage.
- This Project first takes data of luggage from user during check-in process, and stores them in an order using circular linked list according to luggage type and weight. Then while check-out, the luggage comes out on a conveyer in the order. The Passenger is asked whether the bag is of him or not with displaying name of luggage holder.
- If the bag holder takes the bag, rest of the bags arrives continuously even if they are missed by mistake.
- The Reclaiming process is continued until no luggage is available. Then Again whole process of check in and check out can be repeated.

### **Data Structure used: Circular Linked List**

## Input/Output:

1)

```
-----
Enter choice from below
-----
(1) For Checking in Luggage Details
(2) For Checking Your Arriving Luggage Order
(3) For Reclaiming Luggage From The Receiving Site
(4) For Exit
1
ENTER LUGGAGE DETAILS:

Enter Your Name:
Raju

-----
NOTE: SMALL=8kg, MEDIUM=19kg, LARGE=31kg
-----

Enter Bag Type (Large,Medium,Small):
abc

-----
NOTE: SMALL=8kg, MEDIUM=19kg, LARGE=31kg
-----

Enter Bag Type (Large,Medium,Small):
Large

Enter Bag Weight in 1 to 31 kg:
32

Enter Bag Weight in 1 to 31 kg:
15

Raju
Your Luggage Has Succesfully Checked In

-----
Enter choice from below
-----
(1) For Checking in Luggage Details
(2) For Checking Your Arriving Luggage Order
(3) For Reclaiming Luggage From The Receiving Site
(4) For Exit
```

2)

```
-----
Enter choice from below
-----
(1) For Checking in Luggage Details
(2) For Checking Your Arriving Luggage Order
(3) For Reclaiming Luggage From The Receiving Site
(4) For Exit
2

-----
Luggage Will Arrive In The Below Displayed Order
-----

1:
Luggage Holder Name: Raju
Luggage Type: Large
Luggage Weight: 15kg

2:
Luggage Holder Name: Ram
Luggage Type: Medium
Luggage Weight: 12kg

3:
Luggage Holder Name: Alpha
Luggage Type: Small
Luggage Weight: 5kg

-----
Enter choice from below
-----
(1) For Checking in Luggage Details
(2) For Checking Your Arriving Luggage Order
(3) For Reclaiming Luggage From The Receiving Site
(4) For Exit
```

3)

```
-----
Enter choice from below
-----
(1) For Checking in Luggage Details
(2) For Checking Your Arriving Luggage Order
(3) For Reclaiming Luggage From The Receiving Site
(4) For Exit
3

Luggage of Raju is arrived
Is it Yours (y/n)?

n
Luggage of Raju is skipped
If You Think Your Luggage Is Skipped, Then Wait Until It Arrives Again

-----
Luggage Arriving Status
-----

-----
Luggage Will Arrive In The Below Displayed Order
-----

1:
Luggage Holder Name: Ram
Luggage Type: Medium
Luggage Weight: 12kg

2:
Luggage Holder Name: Alpha
Luggage Type: Small
Luggage Weight: 5kg

3:
Luggage Holder Name: Raju
Luggage Type: Large
Luggage Weight: 15kg

Luggage of Ram is arrived
Is it Yours (y/n)?
```

4)

```
Luggage of Ram is arrived
Is it Yours (y/n)?
y
Luggage of Ram is taken
Ram
Your Luggage Has Succesfully Checked Out
```

```
-----
Luggage Will Arrive In The Below Displayed Order
-----
```

```
1:
Luggage Holder Name: Alpha
Luggage Type: Small
Luggage Weight: 5kg
```

```
2:
Luggage Holder Name: Raju
Luggage Type: Large
Luggage Weight: 15kg
```

```
Luggage of Alpha is arrived
Is it Yours (y/n)?
y
Luggage of Alpha is taken
Alpha
Your Luggage Has Succesfully Checked Out
```

```
-----
Luggage Will Arrive In The Below Displayed Order
-----
```

```
1:
Luggage Holder Name: Raju
Luggage Type: Large
Luggage Weight: 15kg
```

```
Luggage of Raju is arrived
Is it Yours (y/n)?
```

5)

```
Luggage of Alpha is arrived
Is it Yours (y/n)?

y
Luggage of Alpha is taken
Alpha
Your Luggage Has Succesfully Checked Out

-----
      Luggage Will Arrive In The Below Displayed Order
-----

1:
Luggage Holder Name: Raju
Luggage Type: Large
Luggage Weight: 15kg

Luggage of Raju is arrived
Is it Yours (y/n)?

y
Luggage of Raju is taken
Raju
Your Luggage Has Succesfully Checked Out

No Luggage Available
-----
      Enter choice from below
-----
(1) For Checking in Luggage Details
(2) For Checking Your Arriving Luggage Order
(3) For Reclaiming Luggage From The Receiving Site
(4) For Exit
```

6)

```
Luggage of Alpha is arrived
Is it Yours (y/n)?

y
Luggage of Alpha is taken
Alpha
Your Luggage Has Succesfully Checked Out

-----
                Luggage Will Arrive In The Below Displayed Order
-----

1:
Luggage Holder Name: Raju
Luggage Type: Large
Luggage Weight: 15kg

Luggage of Raju is arrived
Is it Yours (y/n)?

y
Luggage of Raju is taken
Raju
Your Luggage Has Succesfully Checked Out

No Luggage Available
-----
                Enter choice from below
-----
(1) For Checking in Luggage Details
(2) For Checking Your Arriving Luggage Order
(3) For Reclaiming Luggage From The Receiving Site
(4) For Exit
4
```