**Design Flowchart for Drone Simulator**

Welcome to Drone Delivery Express:

* Please Enter Items you would like delivered at your doorstep (Enter -1 to stop):

Logics used:

For loop to be used for items entering until user enters -1

. Item#1

. Item#2

. Item#3

* Limit of Maximum weight to be kept (if possible) e.g 5 small items=2 large items (in terms of weight) .

Logics used:

If statements are going to be used for such limits.

Rand() for weight.

Rand() for effect on battery percentage by weight.

**Note:** Battery of the drone will be affected by the weight of items ordered.

* If coupon obtained then
* Enter coupon:
* Total: Rs

Logics used:

Total=total+price;

Rand() for coupon

* Check scenarios(rand()weather, time, battery etc)
* Define each condition like done below:

Weather=OK/not preferred

Battery=OK

Time=OK

Logics used:

Combination of if statements and rand() loops

* Your delivery at location A/B/C was on time/2 days late/a week late etc
* In case of late delivery:

Write a sorry message and give a coupon of 10% discount on the next purchase.

Coupon=23AzxW

Logic used:

Rand() for coupon generation so that coupon is not same everytime.

**Note:**

This is just a rough sketch for the drone simulator to give the reader an idea of what to expect. Changes can and will be added for a more refined experience.

**Scenarios:**

Drone’s wings might freeze.

More battery used

Delivery delayed

System will overheat

Delivery delayed

The delivery will be delayed due to drone’s faulty night vision as it fails to detect obstacles in its path.

Ask user to either delay the delivery or to charge the drone

Depends on location

Otherwise perfect condition.

Perfect Condition

Perfect Condition

Perfect condition