END OF WEEK ASSIGNMENT

Come up with real life examples on all the topics we have treated so far.you can use the project topics you came up with for this.

* Algorithms
* Pseudocode
* Function
* Classes and Object

**Algorithm**

Algorithm for a home service mobile application

Start

Step 1: Initialization of username and password for sign up and login.

Step 2: Check if username and password are valid. If username and password are valid. If username and

password are invalid move back to step 1, if valid move to step 3.

Step 3: Search for service required.

Step 4: Select the service of choice and service provider.

Step 5: Confirmation of order

* order details
* Payment mode

Step 6: Tracking of service provider.

Step 7: Service provider arrival and delivery of service.

Step 8: Rating of service.

Stop.

**Pseudocode**

The pseudocode for shopping for items

list ={"Apple","Potatoes","meat","egg","flour","Chicken","carrot",

"butter","jam","lettuce"}

  shelve = 1

  total = list.total

  get shopping cart

 WHILE shelve <11

 x = 1

 move to the next shelves with shopping cart

 WHILE x < (total+1)

 scan shelves for list[x]

 IF shelves have list[x] THEN

  add list[x] to shopping cart

  x = x+1

  END

 Shelve = (shelve + 1)

 END

go to checkout

IF number of items in cart = total THEN

give item in shopping cart to cashier to checkout

ELSE

ask shop attendant to help find missing items

IF shop attendant cannot find an item THEN

total = (total - 1)

END

 payment = cost given by cashier

 check cart

 IF items in cart = total THEN

  take items and return home

  ELSE

  ask shop attendant help to find missing items

  END

  END