### Consider the following when writing algorithms:

* What do you need as inputs? How are these obtained and how stored?
* What are the processes – step by step?
* What are the outputs. how are these displayed/printed to the user?
* Have you forgotten anything?
* Is it all in order?

### Write algorithms for the following scenarios. Algorithms only no coding!

1. List all the steps for ordering a pizza. Choose pizza type, crust type, size, quantity, extras like garlic bread and coke.

* Select the desired type of pizza (e.g., Margherita, Pepperoni, Hawaiian).
* Select Crust Type:

Choose the crust type (e.g., Thin Crust, Hand-tossed, Stuffed Crust).

* Specify Size:

Determine the size of the pizza (e.g., Small, Medium, Large).

* Quantity:

Specify the number of pizzas needed.

* Add Extras:

Select any additional items like garlic bread or drinks (e.g., Coke).

* Review Order:

Double-check the selected pizza type, crust, size, quantity, and extras.

* Provide Delivery/Pickup Information:

Enter delivery address or specify pickup details.

* Place Order:

Confirm the order and proceed to payment.

* Make Payment:

Pay for the order using a suitable payment method (e.g., credit card, cash on delivery).

* Receive Confirmation:

Obtain a confirmation of the order with an estimated delivery/pickup time.

### List all the steps in enrolling student in a class. Assume class is available.

* Check Class Availability:

Verify if the class has available seats.

* Student Registration:

Obtain necessary information from the student (name, student ID, etc.).

Ensure the student meets any prerequisites for the class.

* Input Student Information:

Enter student details into the enrolment system.

* Select Class:

Choose the specific class the student wishes to enroll in.

* Confirm Enrolment:

Verify enrolment details with the student.

* Process enrolment:

Officially enrol the student in the class.

* Provide Confirmation:

Issue a confirmation of enrolment to the student.

### List all the steps for borrowing a book from the library. Assume book is available.

* Locate Book:

Find the book in the library catalogue.

Determine its availability.

* Student Identification:

Verify the student's library membership or ID.

* Check-Out Process:

Bring the book to the circulation desk.

Present the book and student ID for check-out.

* Record Transaction:

Log the borrowing transaction in the library system.

* Due Date and Return Policy:

Inform the student of the due date for returning the book.

Explain any fines or penalties for late returns.

* Receive Book:

Hand over the book to the student.

* Provide Receipt:

Issue a receipt or borrowing slip to the student as confirmation.

### Ordering Movie Tickets at the Cinema:

* Select Movie and Showtime:

Browse the available movie options and showtimes.

* Choose Seats:

Select specific seats for the desired showtime.

* Ticket Quantity:

Specify the number of tickets needed.

* Payment Information:

Enter payment details (credit card, cash, etc.).

* Confirm Order:

Review the selected movie, showtime, seats, and total cost.

* Process Payment:

Authorize payment for the ticket purchase.

* Receive Confirmation:

Obtain a confirmation code or email for the ticket purchase.

* Ticket Retrieval:

Receive physical tickets at the cinema's box office or through electronic means (e.g., mobile app).

* Arrive at Cinema:

Present tickets for entry at the cinema on the day of the show.