**MAIN FUNCTION ():**

In this project I have fist used the main function to take input from the user of the number of customers, waiters and cooks. Then I have used threads as I am doing multiple threading to implement my logic. And I have put a loop according to the number of customers.

**Showmenu ():**

I have made this function to display the menu and to ask for the order of the dishes and I have put some checks to ensure the right and appropriate inputs are given by the user.

**Management ():**

In this function I have first called a fork function and 2 pipes for communication and in it. I have asked for the Customer name and the customer ID. Then I have called the Showmenu() function in this function. After that I have put a lot of checks of the order given by the customer to calculate the price of the total bill of that customer. Then I have created threads to call the cooking() function in this too and the loop is depending upon the number of assigned cooks.

**Cooking ():**

In this function, I have made threads to further call the serving() to serve the order to the customer according to the time of making of the particular dish.

**Serving ():**

I have created this function by threads for the number of waiters and assign them the dishes and orders of the customers to serve.

So, in the end I am displaying the daily sales and the daily waiter sales as output which have been calculated for the customers. This is how our communication is happening between the customer, manager, cook and the waiter making it as a communication model and a restaurant management system.