EXPERIMENT 5

AIM:

To design an **Activity Diagram** for a **Food Ordering System** that models the process of receiving customer orders, preparing food, serving food, collecting payment, and managing raw materials and labor payments.

PROCEDURE:

1. Identify Key Activities

- **Customer Activities**:
  - Place a food order.
  - Make payment.
- **Restaurant Activities**:
  - Receive customer orders.
  - Prepare food.
  - Serve the ordered food to the customer.
- **Back-End Processes**:
  - Store customer payment details.
  - Order raw materials for food preparation.
  - Pay for raw materials.
  - Pay for labor.

2. Define the Flow of Activities

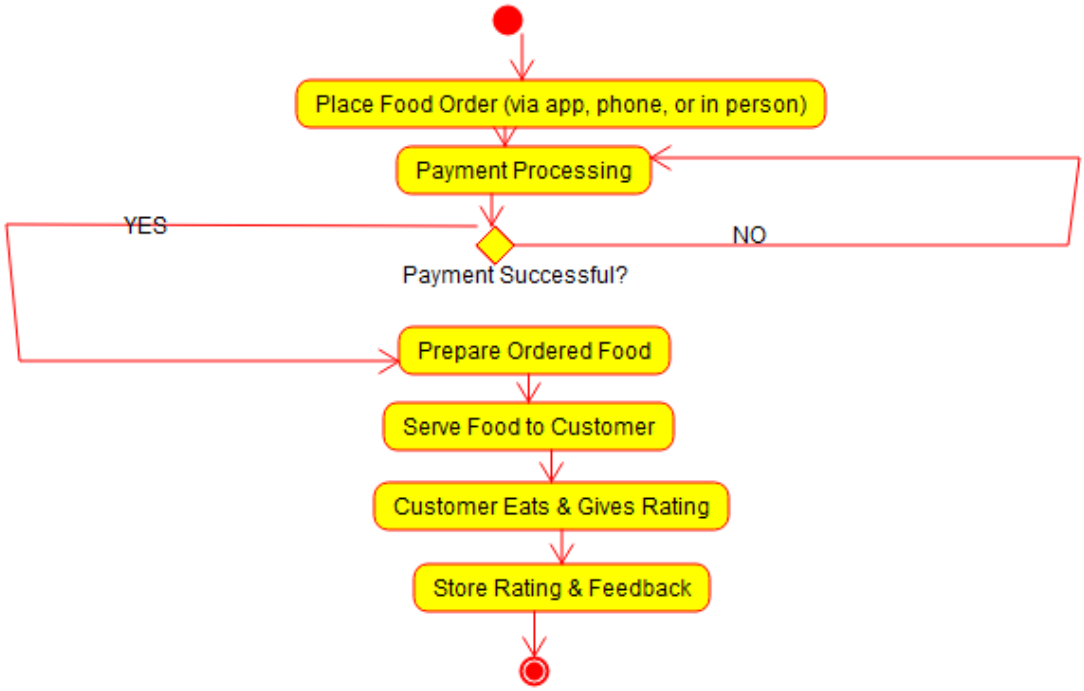
- **Start**:
  - Begin when a customer places a food order.
- **Order Processing**:
  - Receive the food order and process it.
  - Pass the order to the kitchen for preparation.
- **Food Preparation and Serving**:
  - Prepare the food according to the order.
  - Serve the food to the customer.
- **Payment Collection**:
  - Customer pays for the food.
  - Store payment details for recordkeeping.
- **Raw Material and Labor Management**:
  - If raw materials are low, place an order for raw materials.
  - Pay for raw materials.
  - Pay labor involved in food preparation and serving.

3. Draw the Activity Diagram

- Use ovals to represent activities.
- Use arrows to connect activities in sequence.
- Include decisions (diamond shapes) for checking conditions, such as whether payment is successful or raw materials need to be ordered.

- Label the swimlanes as **Customer**, **Restaurant System**, and **Back-End Processes** to distinguish the roles.

OUTPUT:



RESULT:

The **Activity Diagram** for the **Food Ordering System** is successfully created.
It clearly represents the flow of activities, starting from receiving customer orders to food preparation, serving, payment collection, and managing raw materials and labor.
This diagram provides a clear and structured representation of the system's processes.

Hence, the Food Ordering System's workflow is effectively modeled.