1. Read the scenarios given below and identify **processes** of the system with **input(s)** and **output(s)**.
2. CoffeeBreak Employee Management System

CoffeeBreak is a processed coffee producing company satisfying the taste buds of the local customers. Since there are different types the coffee production has become a labour intensive process. The employee management system helps the firm in recording employee details, assigning employees to production lines, managing attendance of the employees and handling employee leave applications.

In order to record the new employees CoffeeBreak takes employee details such as name, national identity card number, date of birth, address and contact number. Upon registration an employee is given an employee number and employee will be entered to the employee register.

After providing training for 2 weeks employees are assigned to production lines. Each new employee number is assigned to a production line where the employee is given a job role, working hours per day and hourly pay.

Each day employee needs to punch in his employee number on arrival to the factory, then the employee number will be recorded in the arrival log. Employee requires to punch out when he leaves at the end of the working day. In case of absence system checks the employee register against arrival log and mark employee absence for work.

Inputs: - name, national identity card number, date of birth, address and contact number, ( daily in and out) Employee registration number

Output: - salary

Process:- get the input daily working hours and calculate (multiply working hours and hourly pay) salary.

1. Royale Hotel Reservation System

Royale Hotel is the ultimate getaway which caters to hundreds of guests through their lavish hotel experience. Hotel management pay lot of effort and dedication to run this labour intensive process. The reservation system helps the firm in recording guest details, assigning rooms to guests, managing meal plans for guests and arranging outdoor activities for guests.

In order to record the guest arrival Royale Hotel takes guests details such as name, national identity card number, address and contact number. Upon registration a guest is given a guest\_ID and the guest will be entered to the Royale guest registry.

After entering guest details system assigns accommodation depending on the guest requirements. Royale has 28 Deluxe Rooms and 02 Themed Suites to indulge the guests with special room rates. Each guest\_ID and number of days are recorded against the selected room number and once assigned room is no longer available for reservation until the guest leave. Bill will be calculated for a given guest\_ID based on the room picked by the guest for the duration of stay.

Each day a guest is given a menu to select items of choice for breakfast, lunch and dinner which will be served on the requested time in the room or in Royale’s exquisite banquet hall. A confirmation notice is issued to the guest to confirm the meal plan for the day.

Royale is surrounded with spectacular waterfalls tumble down over rocks and precipices throughout the cool high country of Sri Lanka. Hotel can arrange outdoor activities for guest. A guest can choose activities out of Royale adventure list and select time of day to perform the activity. A confirmation notice is issued to the guest to confirm the adventure plan for the day.

Input:- name, national identity card number, address and contact number, assigning rooms, managing meal plans and arranging outdoor activities

Process :- After entering guest details system assigns accommodation depending on the guest requirements

Output :- bill calculate and A confirmation notice is issued to the guest to confirm the adventure plan for the day.