

# Jaypee University Of Information Technology Department of Computer Science and Engineering

## **Project Report**

#### **TITLE - Ticket Booth**

A data simulation project on ticket counter management system (4th Semester)

Course Code: 18B17Cl473

Course Name: DATA SIMULATION LAB

### Submitted by,

Team member 1: AKSHARA GUPTA

211340 (CS 48)

Team member 2: SHIVAM THAKUR

211365 (CS 48)

#### Submitted to,

Name: Dr. NAVEEN JAGLAN

**AIM:** To provide an environment where a theater manager can add movies according to his schedule, list them, sell them and can also get daily insights of his sales.

#### **MODULES AND PACKAGES USED:**

(a) SimPy - It is a process-based discrete-event simulation framework based on standard Python.

#### **PSEUDO CODE:**

- 1) We import the mentioned modules and packages.
- 2) Created different member functions:
  - a) generate\_customer() to produce customers in line.
  - b) ticket\_counter\_simulation() to perform the simulation of tickets and customers arrival time and on their movie tickets.
- 3) Main function and END.

**OBSERVATION:** When the administrator enters the system, he/she can enter movies as per schedule and can sell it according to their prices, and at the end it will show the sales insights.

#### **OUTPUT:**

**CONCLUSION AND LEARNING OUTCOME:** In this project, users get full satisfaction and get a detailed outcome. Also we learned to use SimPy and implement it in our daily life programs.