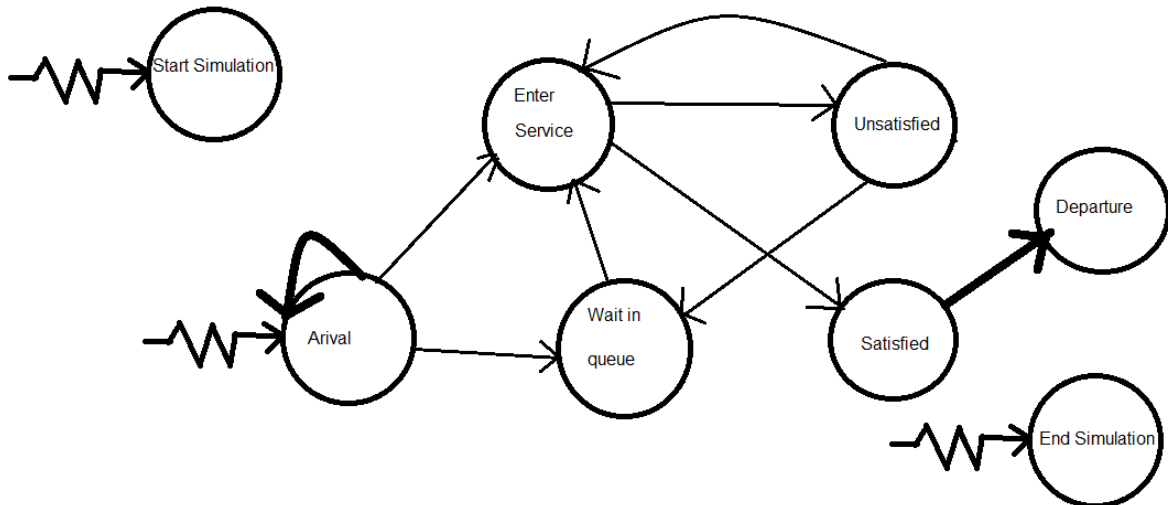# Assignment

Roll: 1405065 , Problem No: 2.29

July 27, 2018

---

1 Event Graph

Figure 1: Event Graph

2 Random Number Streams

- Stream-1: For calculating inter-arrival time, exponentially distributed
- Stream-2: For calculating service time, uniformly distributed
- Stream-3: For calculating Customer's satisfaction probability, uniformly distributed

3 Performance Metrics

- Number of Servers - 5
- Simulation Time - 480 minutes
- Total Satisfied Customers - 2422
- Maximum Queue Length - 1
- Average Queue Length - 0.000042
- Average Customer Delay in Queue - 0.000361
- Average Utilization of Servers - 0.028952

4 Language/Platform Used

Python 3.5.2