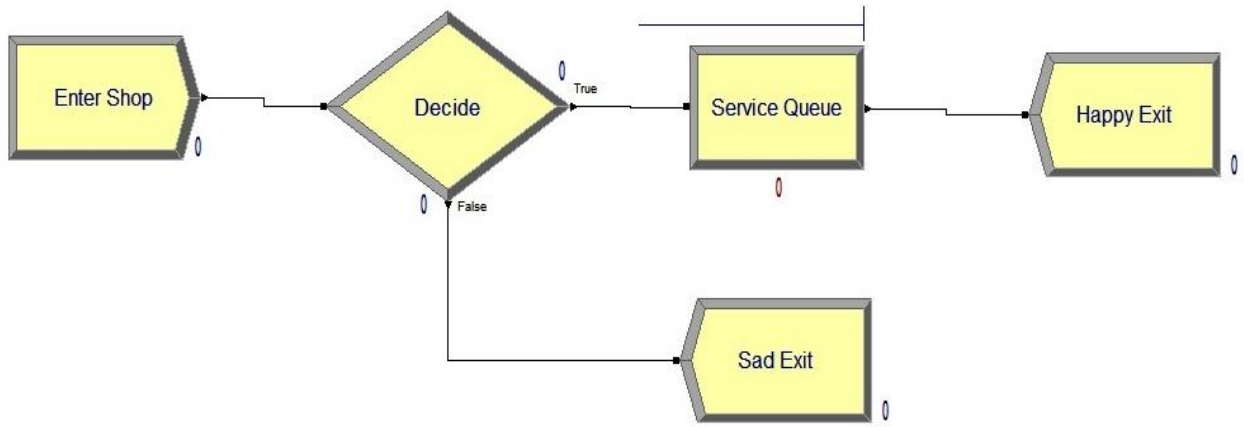
Lab-5

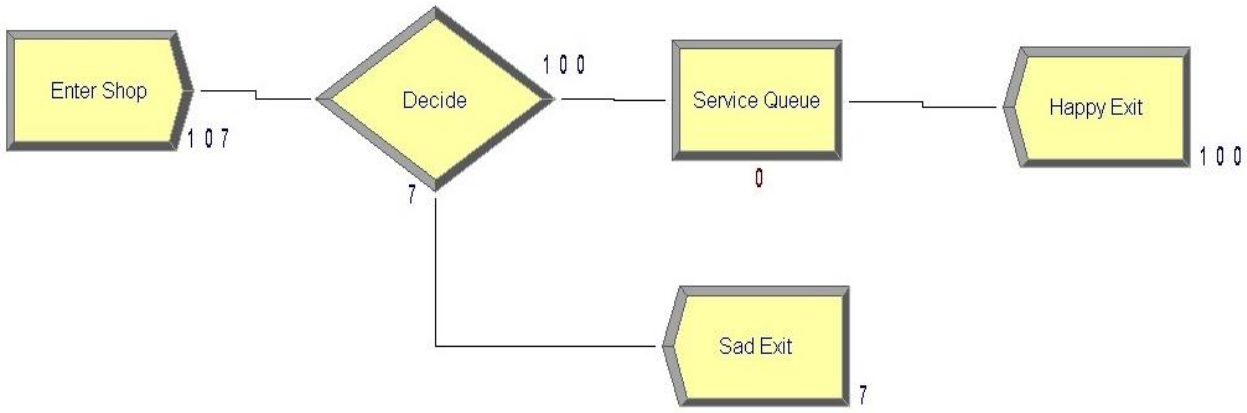
Problem:

Let's think about a supper shop "Mina-Bazaar", where an offer is given on Close-up toothpaste. The offer is first 100 customers can get a free earphone along with buy on 150 gm Close-up toothpaste (in first come first serve basis). Customers arrive at the shop with exponentially distributed inter-arrival times of mean 5 minutes. The shopkeeper takes 1 to 2 minutes in uniformly distribution to serve each customer. Customers arriving will balk (force to go home / go to another shop) if already 100 customer get the offer. Now your task is to develop a model by using above situations, and then run a simulation for 10 hours.

Diagram



Before simulation



After simulation