**Texas Tech University**

**Computer Science Department - CS 3365 – Software Engineering II**

**Due: April 26, 2020 (Midnight)**

**5 marks of the total course mark**

**Submission through the Blackboard System ONLY**

**No Other Forms of Submissions Will be Accepted**

**Goal**: Threat Modeling of Applications using STRIDE

Description:

Consider the sample Java application given below. The program is a Java-based garage application given in the following GitHub repository:

<https://github.com/KI7MT/java-app-examples/tree/master/ConsoleApps/src/beam/example/parking>

The application calculates the total charges for using parking garage.

You are asked to identify:

1. Assets in the target system
2. Vulnerabilities in the target system
3. The most relevant (STRIDE) threats for each vulnerability

Deliverable:

1. A table listing assets (0.5 mark)
2. A data flow diagram with elements a) External Entity, b) Process, c) Data Flow, and d) Data storage (1 mark)
3. A table listing vulnerabilities for each asset (0.5 mark)
4. A table listing possible (STRIDE) threats for each vulnerability (1 mark)
5. A short report explaining the (2 marks)

The following tutorial will help you in modeling threats for an application using STRIDE:

<https://medium.com/@alissaknight/threat-modeling-of-connected-cars-using-stride-e8184764eb0a>