

## INF 113 Assignment 2: Statechart Diagram and Activity Diagram

1. (Statechart) According to following description, draw the statechart diagram.

Suppose you are a student who needs a small loan to pay the tuition fee for this quarter. You first apply for the loan through submitting an online form. Your application may be **Pre-approved** or **Rejected**. If pre-approved, you may need to submit related documents to the bank in 5 working days. Once the bank receives your documents, it may process your application in next 10 working days. Then you will get the results of your application. There are three possible results: **Approved**, **Rejected**, and **Need to provide additional documents**. If the result is **“Need to provide additional documents”**, you need to send these documents in 5 working days. Otherwise, your application will be automatically **Rejected**. After the bank receives the additional documents, a new review process will start, this review process only has two results: **Approved** and **Rejected**.

2. (Activity Diagram) For loan application process described in question 1, draw the activity diagram.

3. What are the differences between statechart and activity diagram?

**You need to turn in a .pdf document includes following contents.**

- 1. A Statechart Diagram for Question 1.**
- 2. An Activity Diagram for Question 2.**
- 3. Answer of Question 3 (no more than 1 page, single space with proper font).**

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*Please submit your file to INF113 Dropbox before midnight.*