

**Computer
Security
Assignment 1**
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Q1. Consider KFU Banner system and

- a) Give example of type of data for which confidentiality is most important
Students' transcripts, factuality members information, and students' information these types of data need to be confidential no one can see other users' data.
- b) Give an example of type of data for which Integrity is most important
Students' grades are more important to be safe and no one can change it except authorized users can only change if and only if they have reasonable reason to edit them.
- c) Give an example when system Availability is most important during a semester
The most important time during a semester that the system must be available is when course registration is open since all the students' login into the banner to register their courses.

Q2. In a banking system, suppose the following data types are used. Name, and ID of the customer: Balance Amount: Transactions:

In the following table, indicate the level of impact as High or Low, for only the threats indicated against each if the data is breached. Justify briefly your choice.

| Data Type | Threat | Impact (Low or High) | Justification |
|-------------------|------------------|----------------------------|--|
| Name | Disclosed | Low | Anyone can now my name. |
| User ID | Modified | High | The user id must not be modified by anyone except the user itself. |
| Balance amount | Modified | High | The users balance must be remained same to the money they users have in their accounts because if anyone can change the balance the bank will lose money or users or even both of them |
| Transactions | Not Available | High | Transactions must be available for customers to do their work or it will lead to stop their life because they cannot use their money from their account in that bank. |