

**Assignment 1**  
**Department of Information & communication Technology - Faculty of Technology**  
**Level II – Semester I**  
**ICT2133 – Object Oriented Analysis & Design**

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**Instructions**

- You can write your answers on A4 sheets, take photos of them and create a document by including those photos.

OR

- You can write the answers and draw the diagrams directly using MS Word.
  - Write your name, index number, course unit name and code, assignment number and the date on the cover page.
1. Write down the fully dressed format use case for **placing an order by using an online shopping system**. Include the following sections in the use case.
    - Use case name, primary actor, scope, stakeholders , preconditions, success guarantee, main success scenario, extensions

**Consider the following instructions when you write the use case**

- Assume that the user already has an account in the system
  - The system should provide a tracking number to check the status of the order and an estimated delivery date.
  - The payment should be done in order to place an order in the system
  - At the end of the process, customer should receive a confirmation mail with all the important information.
  - You should add all the important facts related to the process of placing an order.
2. Given below is a brief description of the process of **cash withdrawal** using an ATM. Draw an appropriate activity diagram for cash withdrawal activity.

The customer enter the debit card into the ATM and provide the pin number. Server verifies the pin and if the pin is valid, the customer can enter the withdrawal amount. Then the server checks whether the account contains a sufficient amount of money to perform the withdrawal. Otherwise the machine will display the error message, “Pin is invalid” and the system will request for the pin again. If there are sufficient funds in the account, the customer can have the requested money and the server will deduct that amount from the account. If there is not sufficient amount of money in the account, the system will display the message “You don’t have enough funds for this transaction” and the customer will be redirected to the home page. After a successful money withdrawal, ATM will eject the cash, card and the receipt respectively. Then the customer can collect them and finish the transaction.

**Important:**

New actions should be added where necessary  
Diagram should be partitioned