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# Task 1

## Define the term ‘use case’ and explain the various types of actors in a Use Case.

## Explain the difference between the <<include>> and <<extends>> relationships in use case diagrams? Give examples

## Describe with examples ‘encapsulation’, ‘information hiding’, ‘polymorphism’ and ‘data abstraction’.

## What is the difference between USDP and the Waterfall lifecycles in the relationship of between activities and phases?

## Explain Class diagram. Outline the main steps in developing a class diagram for a Use Case (UC).

# Task 2

## Question 1

### Start line run

### Record employee joining the line

### Record employee leaving the line

### Stop line

## Question 2: Communication diagram

## Question 3: Class diagram

# Bibliography

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