

## MultiThreading Program Simülasyonu

Dr. Uzay Çetin

## Değerli Öğrenciler,

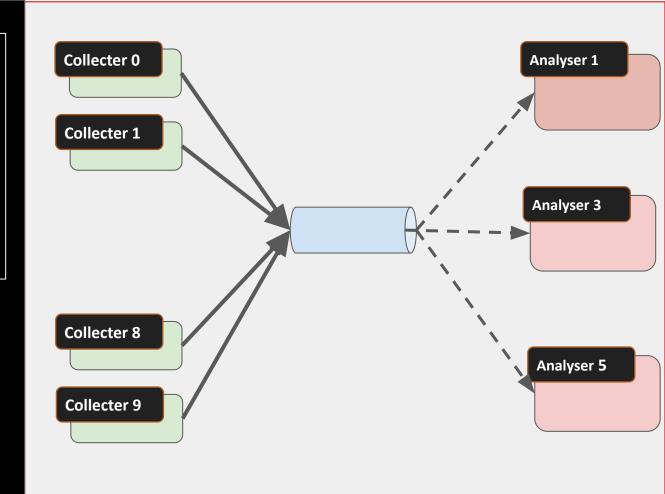
3 Kasım Perşembe günü 2. quizini olacaksınız. Quiz Python dilinde Multi-processing ve Threading kütüphanelerini birlikte kullanarak paralel ve eş-zamanlı bir mimari kullanmanızı gerektirecek. Bunu nasıl yapacağınızı araştırarak gelirseniz, quizinizi daha hızlı bitirebilirsiniz.

Başarılar dilerim Uzay



Collector's task is to collect data from 10 source. Each collection takes 10 seconds.

Analyser's task is to analyse data coming through a queue. Each analysis takes 5 seconds.

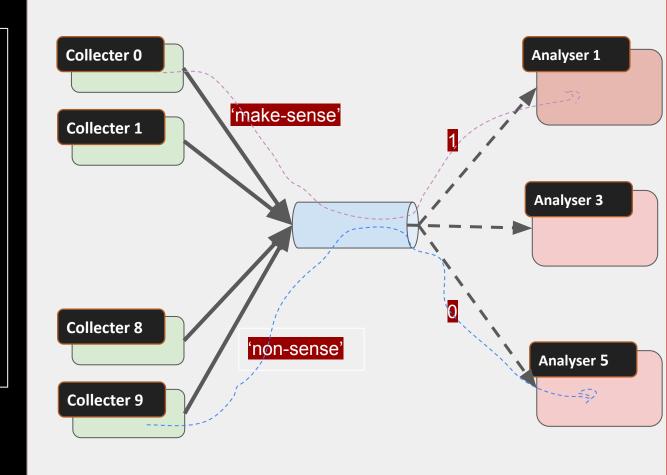


Python Uygulamaları, Dr. Uzay Çetin

Collector's task: Collect social media data from 10 influencers. Each collection takes 10 seconds.

Influencers produce data that 'make-sense' or make 'non-sense'

Analyser's task is to count number of data that make sense. Each analysis takes 5 seconds.



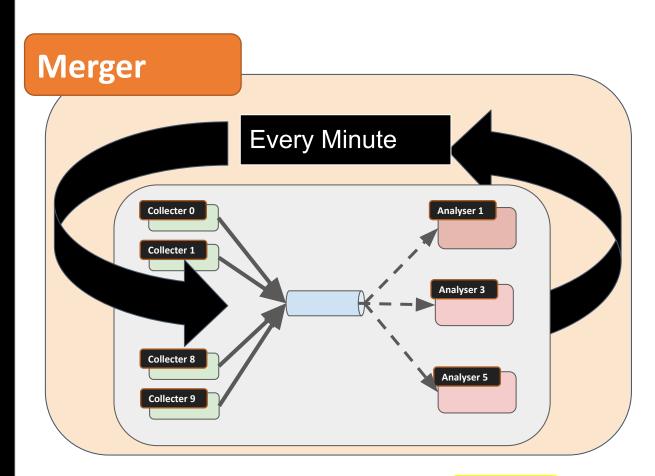
Python Uygulamaları, Dr. Uzay Çetin

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Merger's task is to aggregate all counts coming from Analysers



**Teşekkürler** 

## TALK IS CHEAP SHOW ME THE </CODE> -Linus Torvald

## Multi-Threaded Social Media Analyser

- 1. **[50P]** Run base Producer-Consumer OOP code
- [10P] Modify base Producer-Consumer OOP code (İt does not terminate)
- 3. [10P] Do
  - a. **[5P]** Create Collecter to produce 'Make-Sense' with 0.15 prob and 'Non-Sense' with 0.85 prob then sleeps for 1 sec
  - b. [5P] Create Analyser that counts the number of 'Make-Sense' strings then sleeps for 0.5 sec
- 4. **[10P]** Construct 10x5 Collecter-Analyser architecture
- [20P] Put all in one python script and run it from a merger every one minute