



**YEDİTEPE ÜNİVERSİTESİ**

**FALL 2020**

**EE242 – Microprocessor Systems**

**Homework 1**

**Muratcan Aydın**

**20160701031**

**Question 1:** watch the below tutorials:

A) Crash Course Computer Science

[https://www.youtube.com/watch?v=tpIctyqH29Q&list=PL8dPuuaLjXtNIUrzyH5r6jN9uIlgZBpd\\_o&index=1](https://www.youtube.com/watch?v=tpIctyqH29Q&list=PL8dPuuaLjXtNIUrzyH5r6jN9uIlgZBpd_o&index=1) upto second part (ofcourse you can watch allof them if you wish)

B) <https://www.youtube.com/watch?v=tBq3sO1Z-7o&list=PLNyfXcjhOAwOF-7S-ZoW2wuQ6Y-4hfjMR&index=1>

**Answer 1:**

Nine videos (first part) in the playlist directed by the first video link were watched for about 1.5 hours at 1.25 play speed, and then the first video in the playlist directed by the second video link was watched and understood.

**Question 2:** crete a github account, and a repository with the format ee242\_name\_surname ( characters in english)

**Answer 2:**

The github account was opened with the account name muratcanaydin and repository under the name ee242\_muratcan\_aydin.

**Question 3:** What are the main ide's and tool chains used for programing stm32f407g disco. board.

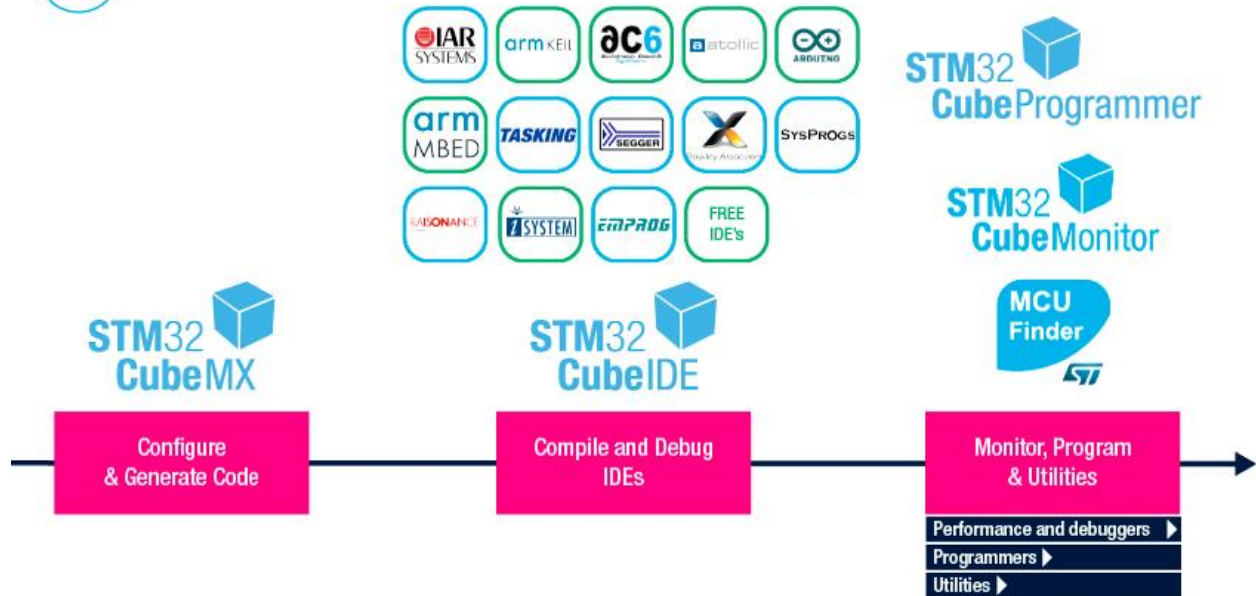
**Answer 3:**



Some ides used for STM32 are available in the image. Although there are so many options, Keil is the most commonly used one, especially for stm32f407g. This much information was shared as the details of the Keil program will be learned in the lesson.



## STM32 Software Development Tools



Some tool chains used for STM32 are available in the image. Although there are other options, CubeMX is the most commonly used one, especially for stm32f407g. This much information was shared as the details of the CubeMX will be learned in the lesson.

**Question 4:** Find 5 projects implemented with stm32.

**Answer 4:**

- 1) bfreeOrgan2 ( <https://www.hackster.io/franco-caspe/bfreeorgan2-371581> )





- 4) Greenhouse Monitoring with Discovery Kit IoT and Android (<https://www.hackster.io/matteo-rizza/greenhouse-monitoring-with-discovery-kit-iot-and-android-333430> )



- 5) LoRa Modem for Digital Sensors (<https://www.hackster.io/frank-tsui/lora-modem-for-digital-sensors-4a8f3b> )

□ □ □

## LoRa Modem

Serial Cable Replacement

