

# Software Engineering 1: Connecting the Cyber and Physical World SIT107

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Q1: How did you test your SOS code?

- From the knowledge obtained through the given Code under Task Objective and Wikipedia it is clear that the SOS code is merely the combination of “. ” and “...” . According to the wikipedia the complete Morse Code for SOS is (. . . ... .. . . .) and according to the provided Code for S , it can be clearly seen that a . means 500 milliseconds and ... means 1500 milliseconds because it consists of three dots while a blank between dots means 1000 milliseconds.

So the pattern should be as follows

S . . .

O ... ..

S . . .

Mathematical it means total time should be  $(500 +$

$1000+500+1000+500+1000+1500+1000+1500+1000+1500+1000+500+1000+500+1000+500+1000)$  = 16.5 seconds

To testify my code I used a stopwatch to calculate the time the Arduino board took to run the full SOS code and it was almost 16.5 seconds because due to human's late reaction time it can cause a minor error.

Q2: Create a repository named BlinkSOS on Github. Upload your code to the repository. Include the link to your repository here.

- The link to my repository is given below  
<https://github.com/ivij/BlinkSOS>

Q3: Take a five second video of your Arduino board with the LED blinking the SOS signal, and upload it to youtube. Include the link here. Alternatively, if you are on campus, show your working project to your tutor in the lab and get it marked on OnTrack.

- This is the link to my Youtube video.

[https://www.youtube.com/watch?v=nDqbw\\_P3qio](https://www.youtube.com/watch?v=nDqbw_P3qio)