



Individual Assignment

Programmed your board

What is a programming environment

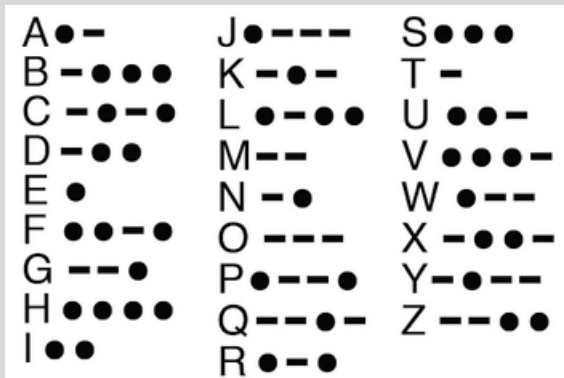
Program your board using an example code. List the steps used to upload the code to your board and to allow it to communicate with the board.

Identify at least 3 different ways you can program this microcontroller. You have a list of challenges, implement the challenges with at least two programming environments. You can implement the same challenge in two environments

Easy mode: Blink your led but have your blink delay periods be randomized values between 1 second and 5 seconds

Medium mode: pre code your microcontroller to send a Morse code 1 word message and challenge a friend, family member, your colleagues or your instructor to figure it out.

dot	1 second light on
dash	2 second light on
gap between dots and dashes	0.5 second light off
gap between letters	3 second light off
Gap at the end of a full word	5 second light off



Hard mode: you select the duration of the light being on and off while the program is running by entering it in the serial monitor. Write a code that takes the data from the serial monitor and delays by that amount of time.

