1. Header files are not up to date in the linux/spi. *spi\_ioc\_transfer* and *spi\_transfer* structures require updates. Hence, replace the header files present in linux/spi with the ones present in the folder named header files. Path of the header files in my system was: ~/SDK/sysroots/i586-poky-linux/usr/src/kernel/include/linux/spi
2. The second task works in the following manner: (Pokemon evolution)
   1. 10cm – 20cm - A “5x5” puppy will run from left-right (depending on whether distance object is moving far from or near to the sensor) with a varying speed.
   2. 20cm – 30cm - A “6x6” puppy will run from left-right (depending on whether distance object is moving far from or near to the sensor) with a varying speed.
   3. 30cm – 40cm - A “7x7” dog will run from left-right (depending on whether distance object is moving far from or near to the sensor) with a varying speed.
   4. 40cm – 50cm - A “8x8” dog will run from left-right (depending on whether distance object is moving far from or near to the sensor) with a varying speed.
   5. Default - A “8x8” dog will be sitting idle without any motion.
3. This pattern kind of shows as though the dog is evolving and de-evolving back when the distance object moves away and towards the sensor respectively. (kind of inspired from anime series pokemon!!!)