Quiz Questions – Embedded Linux

Lecture 7:

Question 1 – “Which function adds a “kobject” data structure to a ‘sysfs’ file system?”

1. “kobject\_store()”
2. **“kobject\_create\_and\_add()”**
3. “kobject\_create()”
4. “kobject\_aggregate()”

Question 2 – “With regard to the “HC-SR04 Ultrasonic Ranging Sensor – which connector is for TTL input which is used to trigger the operation of the sensor?”

1. Echo
2. Vcc
3. **Trig**
4. GND

Question 3 – “The sensor will readout the distance as a pulse from the..”

1. **Echo connector**
2. Vcc connector
3. Trig connector
4. GND connector

Question 4 – “In the implementation of support for the HC-SR04 Sensor in module 7 – What was the write() system call used for?”

1. Provide the user level with the measured echo pulse duration in microseconds
2. **Trigger the sensor and measure the echo pulse duration**
3. Output a pulse duration measurement to the sensor
4. Trigger the sensor then deactivate

Question 5 – “In regard to the sysfs file system – how can a GPIO number (105) be exported via the command line?”

1. “echo 105 > /sys/class/gpio/gpio105”
2. “echo “out” > /sys/class/gpio/gpio105”
3. “echo “out” > /sys/class/gpio/gpio105/direction”
4. **“echo 105 > /sys/class/gpio/export”**