**Assignment - 3**

~~Q1. What is the difference between Master and Slave mode of~~

~~Bluetooth?~~

~~Q2. Write a program to control brightness of an LED using Bluetooth.~~

~~Use the function “map” to so the the user can give values between~~

~~0-100 and the LED will glow according to that percent. Example: if~~

~~user sends “50” using his phone then the LED should glow at 50% of~~

~~the brightness.~~

Q3. Write a program to send sensor data(consider LDR) over TCP connection to a system.

~~Q4. What is Serial Communication. Explain the difference between USART and UART?~~

~~Q5. What is I2C protocol.Explain it’s advantages and disadvantages over other protocol ?.~~

~~Q6. What is I2C frame format. Explain the concept of Master and Slave?~~

~~Q7. What is the difference between IPv4 and IPv6 ? What do you understand by application layer protocol ?~~

~~Q8. What are the advantages and disadvantages of IOT ? Also explain it’s~~

~~applications~~ ?

~~Q9. What are the differences between TCP and UDP ? Explain advantages and disadvantages of TCP protocol ?~~

Q10. ~~What are Parity Bits in serial communication~~?