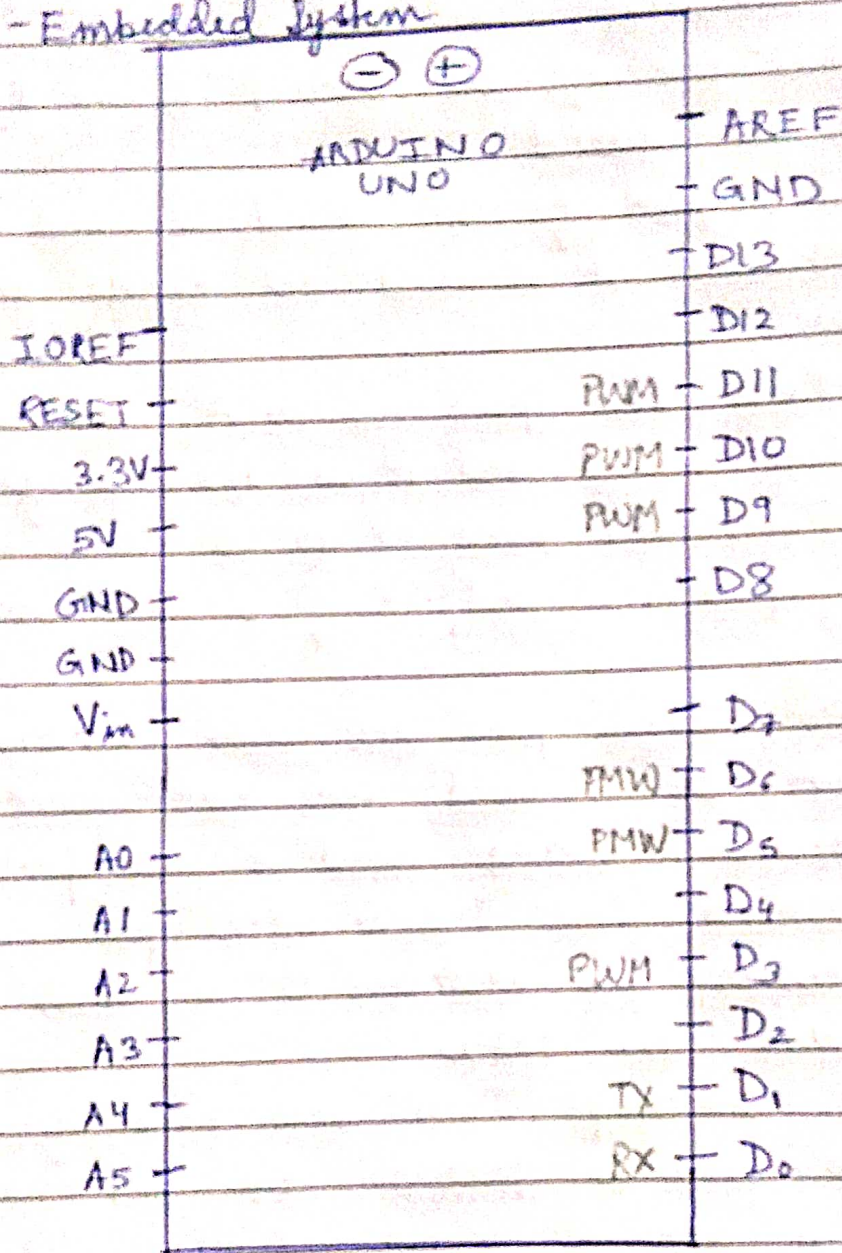


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ROLL NO: 2021UG4019

GROUP - D

SUBJECT - Embedded System



PIN FUNCTIONS

- V_{in}: This is the input voltage pin of the Arduino board used to provide input supply from an external power source.
- 5V: This pin of the Arduino board is used as a regulated power supply voltage and it is used to give supply to the board as well as onboard

components

- 3.3V - This pin of the board is used to provide a supply of 3.3V which is generated from a voltage regulator on the board.
- GND - This pin of the board is used to ground the Arduino board.
- Reset - This pin of the board is used to reset the microcontroller. It is used to Reset the microcontroller.
- Analog Pins: The pins A0 to A5 are used as an analog input and it is the range of 0-5V.
- Digital Pins: The pins 0 to 13 are used as a digital input or output for the Arduino board.
- Serial Pins: These pins are also known as a UART pin. It is used for communication between the Arduino board and a computer or other devices. The transmitter pin number 1 and receiver pin number 0 is used to transmit and receive the data.
- External Interrupt Pins: This pins of the Arduino board is used to produce the External interrupt and it is done by pin numbers 2 and 3.
- PWM Pins: This pin of the board is used to convert the digital signal into an analog by varying the width of the Pulse. The pin numbers 3, 5, 6, 9, 10 and 11 are used as a PWM pin.
- SPI Pins:

This is the Serial Peripheral Interface pin, it is used to maintain SPI communication with the help of the SPI library.
SPI pins include:

Date ____ / ____ / ____



1. SS: Pin number 10 is used as a slave select
 2. MOSI: Pin number 11 is used as a master out slave in
 3. MISO: Pin number 12 is used as a Master in slave out
 4. SCK: Pin number 13 is used as a serial clock
- LED Pin: The board has an inbuilt LED using digital pin-13. The LED glows only when the digital pin becomes high.
 - AREF Pin: This is an analog reference pin of the Arduino board. It is used to provide a reference voltage from an external power supply.