Project Quiz-1/Evaluation-1 on Tuesday 11-02-2020

Roll Number: _____

1. **What do you need for getting started with Arduino UNO and Why do you need it?**
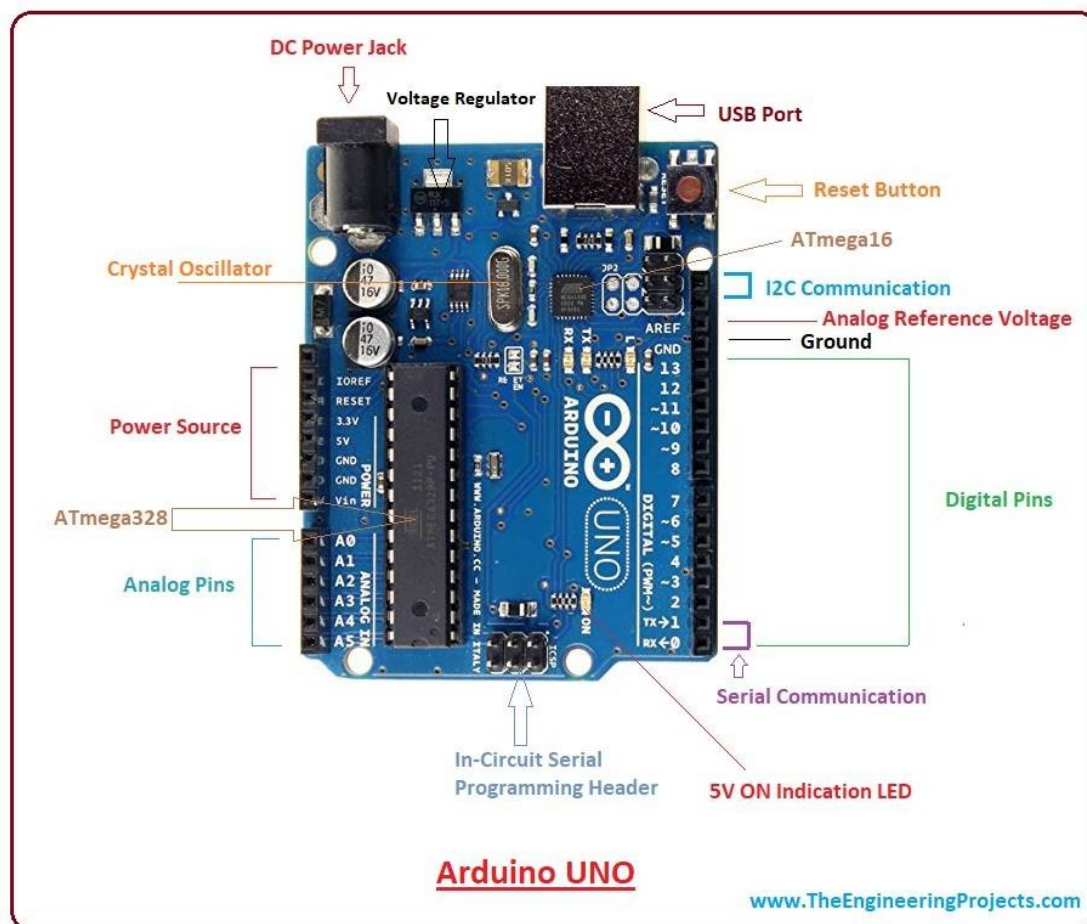   Arduino UNO board, Serial cable, Arduino UNO IDE

   Arduino IDE is the software to enable us to write code for our board. It is needed to program our board to perform its functionality.

2. **What does IDE stand for? What does an IDE normally comprise of?**

   IDE stands for Integrated Development Environment.

   IDE normally comprise of a source code editor, build automation tools and a debugger.

3. **Label the Arduino UNO.**

4. Arduino Uno is a microcontroller board based on the <u>ATmega328P</u>. It has <u>14</u> digital input/output pins (of which <u>6</u> can be used as PWM outputs), <u>6</u> analog inputs, a <u>16 MHz</u> quartz crystal, a USB connection, a power jack, an ICSP header and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a <u>USB cable</u> or power it with a AC-to-DC adapter or battery to get started.

5. Arduino was born at the <u>Ivrea Interaction Design</u> Institute as an easy tool for fast prototyping, aimed at <u>students without a background in electronics and programming.</u> As soon as it reached a wider community, the Arduino board started changing to adapt to new needs and challenges, differentiating its offer from simple 8-bit boards to products for IoT applications, wearable, 3D printing, and embedded environments.

6. Arduino runs on which OS?

   a. MAC
   b. Windows
   c. LINUX

7. Name few different types of Arduino boards?

   a. Arduino Uno (R3)
   b. LilyPad Arduino.
   c. Red Board.
   d. Arduino Mega (R3)
   e. Arduino Leonardo

8. What is the general structure of Arduino IDE code?

void setup ( )

void loop ( )