Assignment -1

1. 3 A flows through a 240 V lamp. What is the resistance of the lamp?

V = I \* R

R = V / I

= 240 / 3

= 80 Ohms

1. How to check the resistance of a resistor using the colour coding ?

The colored bands are read from left to right with the larger width tolerance band oriented to the right side indicating its tolerance. The first and second bands indicate digits, third band represents multiplier and the fourth band represents tolerance.

1. Mention any 5 virtual environments which we can use for Arduino Simulation.

Paulware’s Arduino Simulator

Tinkercad circuit

ArduinoSim

Emulare Arduino Simulator

Simulator for Arduno by virtronics

LTSpice Arduino Simulator

Circuits-cloud Simulator

1. What is sketch in Arduino?

Arduino sketch is the name that Arduino uses for a program. It’s the unit of code that is uploaded to and run on an Arduino board. A basic Arduino sketch consists of two functions:

Setup()

Loop()

1. What are the three important parts of Arduino?

Microcontroller

Power port

USB connector