

EXPERIMENT

BLUETOOTH—SMARTPHONE CONTROLLED LIGHT SYSTEM

CIRCUIT DIGRAM:

THEORY:

CONCEPT USED:

➤ KIRCHOFF'S VOLTAGE LAW ➤ KIRCHOFF'S CURRENT LAW ➤

CONCEPT OF BLUETOOTH AND ITS CONNECTION

LEARNING & OBSERVATION:

**• CONNECTIONS IN BREADBOARD AND WIRING • TO FORM
DIFFERENT PATTERNS FROM LEDS • HOW TO CONTROL ARDUINO &
ITS CODING • SENSOR CONCEPTS WITH CONCEPTS OF BLUETOOTH**

OBSERVATIONS:

**❖ CONTROL OF BLUETOOTH WITH SMART PHONES ❖ RELATION
BETWEEN SOFTWARE AND HARDWARE**

PROBLEMS AND TROUBLESHOOTING:

**✓ TO SELECT THE RIGHT PORT AND TYPE OF ARDUINO ✓ TO CHECK
THE LOOSE CONNECTIONS ✓ TO CHECK THE CONTINUITY OF CIRCUIT
✓ TO CHECK THE FLOW OF CURRENT ✓ TO CHECK THE CONNECTIONS
ACCORDING TO THE CODES ✓ TO CONNECT THE RIGHT PINS IN THEIR
RESPECTIVE PINMODES ACCORDING TO THE CODES**

PRECAUTIONS:

**• HANDLE THE COMPONENTS CAREFULLY • AVOID CONNECTING
ARDUINO TILL THE CIRCUIT IS COMPLETE • CONNECT THE LEDs WITH
A RESISTANCE TO AVOID DAMAGE • DON'T PLUG THE COMPONENTS
INTO UNKNOWN CIRCUITS AND MODES**

SUBMITTED BY: NAME: TUSHAR SRIVASTAVA

UID : 19BCS6113

COURSE: BE-CSE(AIML-2A)