

### **EXPERIMENT 3:**

**Hardware Troubleshooting:** Students have to be given a PC which does not boot due to improper assembly or defective peripherals. They should identify the problem and fix it to get the computer back to working condition.

**AIM:** Hardware troubleshooting

**Software Requirement:** No software required

**Hardware Requirement:** Personal computer

**Troubleshoot:-**

1. If you hit the power button & nothing happened.
  - ☐ Check all power connections.
  - ☐ Check for power on mother board.
2. If the system turns on but does not beep or begin to boot up.
  - ☐ Remove all components except motherboard/ cpu / monitor check by giving power to them

**Computer error beeps codes:**

**No beep:** short, no power, bad CPU/ MD, loose peripherals.

**One beep:** everything is normal & computer posted tax.

**Two beeps:** post / CMOS error.

**One long beep One short beep:** Motherboard problem.

**One long beep two short beep:** video problem.

**One long beep 3 short beeps:** video problem.

**3 long beeps:** keyboard error.

**Repeated long beep:** memory error.

**Continuous high- low beeps: CPU overheating**

**TEST DATA:** No Test data for this Experiment

**ERROR:** No Errors for this Experiment

**RESULT:** Doing the Hardware troubleshooting is completed

**Viva Questions and Answers:**

1. What is the hardware trouble shooting?
2. What is the device manager?
3. What are the troubles related to the monitors?