**Assignment - 2**

**Student Name:** Vivek Kumar **UID:** 21BCS8129

**Branch:** BE-CSE (LEET) **Section/Group:** ON20BCS-809/A

**Semester:** 4th Sem **Date of Performance:** 08/04/2022

**Subject Name:** MPI **Subject Code:** 20CSP-252

**1. Aim/Overview of the practical:**

Make control word when the ports of 8255A are to be used in mode 0 with all the ports as output port.

**2. Theory:**

As we know to select the Mode 0 we have to always select the D6 & D5 as 0, 0. And D2 as also 0. To keep the IC in I/O mode we have to Select the D7 always as 1.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **D7** | **D6** | **D5** | **D4** | **D3** | **D2** | **D1** | **D0** | **Control Word** |
| **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **80 H** |
| **1** | **0** | **0** | **0** | **0** | **0** | **0** | **1** | **81 H** |
| **1** | **0** | **0** | **0** | **0** | **0** | **1** | **0** | **82 H** |
| **1** | **0** | **0** | **0** | **0** | **0** | **1** | **1** | **83 H** |
| **1** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **88 H** |
| **1** | **0** | **0** | **0** | **1** | **0** | **0** | **1** | **89 H** |
| **1** | **0** | **0** | **0** | **1** | **0** | **1** | **0** | **8A H** |
| **1** | **0** | **0** | **0** | **1** | **0** | **1** | **1** | **8B H** |
| **1** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **90 H** |
| **1** | **0** | **0** | **1** | **0** | **0** | **0** | **1** | **91 H** |
| **1** | **0** | **0** | **1** | **0** | **0** | **1** | **0** | **92 H** |
| **1** | **0** | **0** | **1** | **0** | **0** | **1** | **1** | **93 H** |
| **1** | **0** | **0** | **1** | **1** | **0** | **0** | **0** | **98 H** |
| **1** | **0** | **0** | **1** | **1** | **0** | **0** | **1** | **99 H** |
| **1** | **0** | **0** | **1** | **1** | **0** | **1** | **0** | **9A H** |
| **1** | **0** | **0** | **1** | **1** | **0** | **1** | **1** | **9B H** |

**Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
|  |  |  |  |