Controlling Stepper Motor

MDA-8086 Kit – PPI Application

Birzeit University

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PRE\_LAB

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1. **Done.**
2. **Done.**
3. **The ROR instruction rotate the content of the register to the right .ROL instruction rotate the content of the register to the left .**
4. **The stepper motor resolution means the number of degrees that the shaft rotate at one step .**
5. **1\_phase Excitation :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **A** | **B** | **A'** | **B'** | **Hex** |
| **Step 1** | **0** | **1** | **1** | **1** | **07** |
| **Step 2** | **1** | **0** | **1** | **1** | **0B** |
| **Step 3** | **1** | **1** | **0** | **1** | **0D** |
| **Step 4** | **1** | **1** | **1** | **0** | **0E** |

**2\_phase Excitation :**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **A** | **B** | **A'** | **B'** | **Hex** |
| **Step 1** | **0** | **0** | **1** | **1** | **03** |
| **Step 2** | **1** | **0** | **0** | **1** | **09** |
| **Step 3** | **1** | **1** | **0** | **0** | **0C** |
| **Step 4** | **0** | **1** | **1** | **0** | **06** |