

Birzeit University

Information Technology Faculty

Computer Systems Engineering Department

PRE\_LAB

Controlling Stepper Motor

MDA-8086 Kit – PPI Application

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**TA : Ayman Arandi.**

**3. ROR : rotating the content of the register to the right .**

**ROL : rotating the content of the register to the left .**

**4. stepper motor resolution : 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** |

**Table #1**

**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** |

**Table #2**