

Birzeit University

 Information Technology Faculty

Computer Systems Engineering Department

PRE\_LAB

 Controlling Stepper Motor

 MDA-8086 Kit – PPI Application

**Student Name : Zahra’ Hanoun**

**Student ID : 1080064.**

**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**