Department of Electronics and Communication Engineering
NIT Rourkela
Microprocessor Lab (EC-371)
List of Interfacting experiments and Project work

8085/ 8086 Interfacing Experiments (Minimum 2 to be completed)

1. Generate a square wave of given frequency at the output pin 8255/8155.
2. Connect 8 LEDs to any output port of 8255 and switch them on and off in given sequences.
3. Generate a sine wave using look up table with the help of digital to analog converter.
4. Display the number of seconds elapsed by interfacing two 7-segment display connected to 8255

Project Work (At least one to be completed)

1. Design a traffic light controller similar to the traffic condition at IG park.
2. Design a stop watch to measure an event with accuracy of 10ms. The display should be

<div align="center">sec sec : msec msec</div>

3. Design a digital voltmeter with a 2% accuracy (analog voltage input 10mv to 100V.