Experiments

- 1 Write an ALP to
- i) multiply two 16-bit binary numbers.
- ii) add two 64-bit numbers.
- 2 Write an ALP to find the sum of first 10 integer numbers.
- 3 Write an ALP to find factorial of a number.
- 4 Write an ALP to add an array of 16-bit numbers and store the 32-bit result in internal RAM.
- 5 Write an ALP to find the square of a number (1 to 10) using look-up table.
- 6 Write an ALP to find the largest/smallest number in an array of 32 numbers.
- 7 Write an ALP to arrange a series of 32-bit numbers in ascending/descending order.
- 8 i) Write an ALP to count the number of ones and zeros in two consecutive memory locations.
- ii)Write an ALP to Scan a series of 32-bit numbers to find how many are negative.
- 9 Interface a Stepper motor and rotate it in clockwise and anti-clockwise direction.
- 10 Interface a DAC and generate Triangular and Square waveforms.
- 11 Display the Hex digits 0 to F on a 7-segment LED interface, with a suitable delay in between.
- 12 Interface a simple Switch and display its status through Relay, Buzzer and LED.