Department of Computer Science and Engineering National Institute of Technology Calicut

CS2093D HARDWARE LABORATORY

ASSIGNMENT 3

Write an assembly language program:

- 1. To perform binary search in an n sized array.
- 2. To perform Insertion Sort in an n sized array.
- 3. Sort the elements in an array according to its frequency Sample Input: 2 5 3 2 4 3 4 1 6 4 Output: 4 4 4 4 3 3 2 2 6 5 1
- 4. To print the frequency of all elements in an n sized array Sample Input: 1 2 3 3 2 4 3 Output: 1 2 3 3 2 1 3
- 5. To print all prime numbers in an n sized array.
- 6. To enter two numbers 'a' and 'b' and print all the numbers in an n sized array which are divisible by both 'a' and 'b'.
- 7. To find sum of two mXn matrices.
- 8. To find the transpose of an mXn matrix.
- 9. To perform matrix multiplication.