NATIONAL INSTITUTE OF TECHNOLOGY CALICUT
Department of Computer Science & Engineering

CS2093D/ CS2093: HARDWARE LABORATORY
(Winter 2018-2019)

Practice Set 2 : (INTEGER ARRAYS)

Build NASM programs for the following questions.

1. Enter 'n' two digit numbers to an array, then enter a number 'k' between 0-99.
   a) Find out how many numbers are greater than the 'k'.
   b) Find out how many numbers are less than the 'k' .
   c) Find out how many numbers are equal to 'k' .
2. Write a program to identify numbers in an array that are divisible by 7.
3. Write a program to read 10 numbers into an array, find the Largest & Smallest numbers among them and print the difference between them.
4. Write a program to identify second largest number in an array of length n.
5. Enter 'n' two digit numbers to an array of length 'n'
   a) identify the number which is having highest occurrence?(repeated maximum times)
   b) identify the number which is having lowest occurrence? (repeated less times).
6. Write a program to sort an array in ascending order using any of the sort method.
7. Read two single dimensional arrays of size n (A&B) and generate an n sized single dimensional array(C) in such a way that C[i]=A[i] if A[i]>B[i]else C[i]=B[i] ;for i=1to n.
8. Write a program to search for a number in an array of numbers using linear search & binary search.
9. Write a program to find common elements between two arrays.
10. Write a program to read n elements into an array and print all prime numbers in it.