ID1063 Final Lab Exam AI, BM

Time: 3 hours

Total Marks: 5+10+10=25

- 1. Write a program to accept a positive integer n, left-rotate it and print the left-rotated number. For example, if n = 1357, the output is 3571.
- 2. Implement a generic interleave function called interleave with the following signature: void interleave(void* output_arr, void* input_arr1, void* input_arr2, size_t arr1_size, size_t arr2_size, size_t elem_size) that creates an output_arr of size arr1_size+arr2_size with the values interleaved as input_arr1[0],input_arr2[0], input_arr1[1], input_arr2[1]... Test your function with two integer arrays as input; for example, if the first array has elements 1,2,3,4 and the second array has elements 5,6,7, then the output array should have elements 1,5,2,6,3,7,4.

Write a program that accepts a string and converts it to Morse code. You may assume that the string can contain any character for which the mapping is given in the file.