ECT342 Embedded Systems
Assignment 1

1. Write an assembly language to perform addition and subtraction of 64 bit numbers and store the result in selected memory locations.
2. Write an assembly language program to load 10, 32 bit numbers from memory locations, add them, and store the result in another memory location.
3. Write an assembly language program to load 10, 32 bit numbers from memory locations and store the same in another 10 locations.
4. Write an assembly language program to multiply a number stored in a register with 45 using "MUL" instruction and ADD/SUB instructions. Compare the results.
5. Write an assembly language program to print the string "Embedded systems" stored in memory locations
6. Write an assembly language program to copy the string "Embedded systems" stored in memory locations to another set of memory locations.
7. Write an assembly language program to print out the contents of register R1 into Hexadecimal
8. Write an assembly language program to print out the contents of register R1 into binary format.
9. Write a subroutine program to output a text string immediately following the call
10. Write an assembly language program to find the largest number from a series of 15 numbers stored in memory locations.
11. Write an assembly language program to find the smallest number from a series of 15 numbers stored in memory locations.
12. Write an assembly language program to find the length of a string