21AIE112 Elements of Computing Systems-II Assignment 6

Date: 27/04/2022 Due D		ate: 31/5/2022
	ourse Outcomes	
	CO1: Elaborate the important components of a MIPS computer systematic organization	em and the
	CO2: Implement and execute low-level programming on the hardwa	re platform
	CO3: Develop and test programs in object-based language 'Jack'	
	CO4: Practice experiments related to basic concepts and functions o systems and compilers.	f operating
☐ Answer all Questions		
	ne code in Jack Compiler and run the obtained VM codes in VM compiler and ts. All the output screenshots should be attached.	nd attach the
1.	Write a Jack code to reverse the strings "Avengers" and "redivider".	[CO3]
2.	Write a JACK program to perform MERGE sort using recursion.	[CO3]
3.	Write a JACK program to perform BINARY search.	[CO3]
4.	Write a JACK program to find the smallest and largest number in an array	/. [CO3]
5.	Give a detailed description of JACK Syntax Analyzer. Explain various steps Tokenizer and Parser including the API.	involved in [CO4]