21AIE112 Elements of Computing Systems-II Assignment 7

Date: 16/05/2022 Due Date: 31/5/202	
	Course Outcomes
	CO1: Elaborate the important components of a MIPS computer system and the basic organization
	CO2: Implement and execute low-level programming on the hardware platform
	CO3: Develop and test programs in object-based language 'Jack'
	CO4: Practice experiments related to basic concepts and functions of operating systems and compilers.
	☐ Answer all Questions

General Instructions to Students:

Write the Jack program of the given task and Compile and successfully simulate it on VM emulator

1. Write a Jack program to execute the following equation

If
$$n \le 10$$
, $y = \sum n$
Else $y = \sum n^2$

- 2. Write a Jack program which counts up to 30 sec and automatically resets to 0
- 3. Write a Jack program to find the sum of prime numbers from 50 to 100
- 4. Write a brief description of the various Jack OS Services