



DEPARTMENT OF COMPUTER ENGINEERING

Experiment List

Subject: 210257: Microprocessor Lab

Lab Scheme	Credit	Examination Scheme
PR: 02 Hours/Week	01	TW: 25 Marks OR: 25 Marks

CLASS: SE COMPUTER -I S1,S2

Academic Year 2020-21

Sr. No.	Experiment List	CO	PO	PSO
1.	Content to bridge the GAP- Write an X86/64 ALP to accept a number and display it using macros.			
2.	Write an X86/64 ALP to accept five 64 bit Hexadecimal numbers from user and store them in an array and display the accepted numbers.			
3.	Write an X86/64 ALP to accept a string and to display its length.			
4.	Write an X86/64 ALP to count number of positive and negative numbers from the array.			
5.	Write an X86/64 ALP to find the largest of given Byte/ Word/ Dword/ 64-bit numbers.			
6.	Write X86/64 ALP to detect protected mode and display the values of GDTR, LDTR, IDTR, TR and MSW Registers also identify CPU type using CPUID instruction.			
7.	Write X86/64 ALP to perform non-overlapped block transfer without string specific instructions. Block containing data can be defined in the data segment.			
8.	Write X86/64 ALP to perform overlapped block transfer with string specific instructions Block containing data can be defined in the data segment.			
9.	Write X86/64 ALP to perform multiplication of two 8-bit hexadecimal numbers. Use successive addition and add and shift method. (use of 64-bit registers is expected).			
10.	Write x86 ALP to find the factorial of a given integer number on a command line by using recursion. Explicit stack manipulation is expected in the code.			



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11.	<p>Study Assignment:</p> <p>Motherboards are complex. Break them down, component by component, and Understand how they work. Choosing a motherboard is a hugely important part of building a PC. Study-Block diagram, Processor Socket, Expansion Slots, SATA, RAM, Form Factor, BIOS, Internal Connectors, External Ports, Peripherals and Data Transfer, Display, Audio, Networking, Overclocking, and Cooling.</p> <p>4.</p> <p>https://www.intel.in/content/www/in/en/support/articles/000006014/boards-and-kits/desktop-boards.html</p>			
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Practical In-charge

Mrs. Shikha Agrawal

HOD

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