University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)
FACULTY OF INFORMATION TECHNOLOGY

Computer Organization and Assembly Language

Lab 9	
Topic	1. Stack operations 2. Subroutine

Question #1:

Write a subroutine which can calculate the multiplication table of a number 'n' passed as a parameter and save the results in an array.

Let a number is 10.

After execution your array should be:

Index	0	1	2	3	4	5	6	7	8	9
Value	10	20	30	40	50	60	70	80	90	100

Question #2:

Write a subroutine which replaces the value of an array with 1 if it is prime else replace it with 0.

Make a subroutine for checking prime number, pass a number in it as a ***parameter***.

Let array 1:

Index	0	1	2	3	4	5	6	7	8	9
Value	4	24	13	11	19	25	38	99	150	17

then array 1 should be:

Index	0	1	2	3	4	5	6	7	8	9
Value	0	0	1	1	1	0	0	0	0	1

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Question #3:

Write a subroutine which finds the second maximum from an array of byte size with 10 elements. Try to do in a single iteration.