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Faculty of Information Technology

I declare that I am familiar with, and will abide to the Examination rules of CTU

DSAE

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Signature

SUBJECT NAME: BASIC PROGRAMMING

SUBJECT CODE: BP411

Summative	**Examiner**: Mr. Isaac L
Duration: 5 Days	**Moderator:** Mr. Gerhard L
Date: -	
Total Marks: 100	
Total pages: 4	

Student number

7	7	7	0					

Surname:	**Initials**:		
Economon	DSA	/	%

SECTION 2   **100 MARKS**

1. Write a Python program that prompts the user to enter a sentence of at least 5 words. Include a test to ensure that the user has entered at least 5 words. Store the individual words as separate items in a list. Print the sentence in reverse order - word by word. The words must print in one line (not beneath each other). Insert spaces between the words. Example: "What is the best song right now" > "now right song best the is What"

    Print the sentence in reverse order - letter by letter. The words must print in one line (not beneath each other). Insert spaces between the words.

    # Example: "What is the best song right now" > "won thgir gnos tseb eht si tahW"

                                                                                                                            [25]

2. Write a Python function called sumList () which will receive a list of integers as input parameter. sumList() must:

    a) Print the list

    b) Sum all the numbers in a list and print the total.

    The main section of your program must:

    c) Ask the user how many numbers the list should contain;

    d) Create the list accordingly (containing randomly generated integers between 0 and 100);

    e) Pass the list to sumList () for processing.

    Example output if a list containing four numbers is passed to sumList()

    [3, 47, 94, 1].

    The total is: 145

                                                                                                                            [25]

3. Write a Python program that reads an integer representing a month of the year, and then print the name of the month. Your program must include validation and error handling code. Thus, if the user enters a value outside the range of 1-12; or characters that cannot be converted to an integer, your code must print the appropriate message and continue without crashing. (Hint: You may NOT USE any 'if' statements.)

Examples:

 # Input: -5   Output: Please enter a number between 1 and 12:

 # Input: gkl   Output: Please enter numbers only

 # Input: 6   Output: June [40]

[50]