ED5340:Data Science: Theory and practice

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Lab 2: Conditional Statements & Lists



Opened: Wednesday, 31 January 2024, 1:30 PM **Due:** Wednesday, 31 January 2024, 11:59 PM

1. Write a program to print numbers divisible by both 7 and 8. Numbers between 1 and 1000.

[Numbers like 56, which are both divisible by 7 and 8]

- a. Using continue statement
- b. Using the pass statement
- 2. Number 34567222541147 has been given. Print the addition of all even digits and the addition of all odd digits.

[Sample input = 156893, Sample Output: sum_even = 14, sum_odd = 18]

- 3. Describe conditional expression. Write a program to print the maximum and minimum numbers from a list using conditional expression. Use the max () and min () functions to verify your output.
- 4. Pascal's Triangle: Print the following pattern for the given N number of rows.

Sample Example:

Pattern for N = 8

- 5. A palindrome sentence is a phrase or sentence that reads the same forward as it does backward, ignoring spaces, punctuation, and capitalization.
- A) Take a number as input, determine if it is a palindrome, considering only integers. Eg: 2442

B) Now, take a string as an input and check whether it is Palindrome or not. eg: "Was it a car or a cat I saw?" The expected output for this example will print, 'True' 6. Describe chr () and ord () functions. Write a small program to show its functionality. Using these functions, write a program to print: Pattern for N=4 Α ВВ CCCDDDD 7. You have a single list of names (each name should have first name and last name). Write a programme (a) to print the first names. (b) to print the last names. (c) to print each name as 'last_name first_name. (d) to print the names in the sorted order with respect to last name Example :Input list: ['Mark Antony', 'Mohan Raj'], Output: a) ['Mark', 'Mohan'] b) ['Antony', 'Raj'] c) ['Antony Mark', 'Raj Mohan'] d) ['Mark Antony', 'Mohan Raj'] 8. WAP to find the minimum of 3 numbers using a) with conditional expressions. (No loops should be used) b) with nested conditional expression. (No loops should be used) c) similar to problem (b), find the minimum of 4 numbers. 9. Create a list of departments in IIT Madras (Minimum 5) and perform the following operations: append remove pop insert

 extend slice

reverse • sort count • index

clear

10. Differentiate deep copy and shallow copy.

Edit submission

Remove submission

Submission status

Submission status	Submitted for grading
Grading status	Graded
Time remaining	Assignment was submitted 6 days late
Last modified	Wednesday, 7 February 2024, 12:58 AM
File submissions	AM23M022 LAB2 31 01 2024.pdf 7 February 2024, 12:58 AM 6 February 2024, 9:35 PM
Submission comments	Comments (0)

Feedback

Grade	10.00 / 10.00
Graded on	Monday, 3 June 2024, 8:03 AM
Graded by	eM ed19b019 MISHMA MARIYAM RAJU

→ Class on 29/01/2024

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