

F.Y.BCA - Sem2 - Journal A.Y. : 2022-2023

## 204-Programming Skills (206-Practicals)

- 1. Write a Menu base C program with following options.
  - 1. Addition of two Matrices.
  - 2. Subtraction of two Matrices.
  - 3. Multiplication of two Matrices.
  - 4. Transpose of Single Matrix.
  - 5. Exit.
- 2. Write a C program that creates structure Employee with id, name and salary. Enter data of five employees. Display data of those employees whose salary is less than 15000.
- 3. Write a C structure volume with fields: liter and millilitre. Read the value of two volumes and add them, if the value of millilitre is more than 1000 then add it to liter value.
- 4. Write a C program to sort numeric array in ascending or descending order using UDF.
- 5. Write a C program to sort elements in Lexicographical order (dictionary order).
- 6. Write a C Program to find Sum of Series 1<sup>2</sup>+2<sup>2</sup>+3<sup>2</sup>+....+n<sup>2</sup> Using Recursion.
- 7. Write a C program to check the given string is palindrome or not using UDF.
- 8. Write a python program to display reverse number. E.g. I/p => 1234 o/p => 4321
- 9. Write a python program to print factorial of n numbers using while loop.
- 10. Write a python program to Fibonacci series of n numbers using while loop.
- 11. Write a python program to create choice based menu for calculator operations.
- 12. Write a python function to check whether the entered number is Armstrong or not.
- 13. Write a python program to converts all the characters of a Lower Case to Upper Case and Upper Case to Lower Case.
- 14. Write a python program to count total number of times a Specified value appears in given string.
- 15. Write a python program to add and remove element from the list.
- 16. Write a Python program to sum all the items in a list.
- 17. Write a python program that store characters of a word as List elements and removes vowels from the list.

Example:

Old List: ['p','r','o','g','r','a','m'] New List: ['p','r','g','r','m']

- 18. Write a python program to check if an item exists in a tuple or not.
- 19. Write a python program to print the third, fourth, and fifth item in the tuple.(Use a range of indexes)
- 20. Write a python program to add multiple items 'more\_fruits' to the fruits set. fruits = {"apple", "banana", "cherry"}

more\_fruits = ["orange", "mango", "grapes"]

- 21. Write a python program to update the dictionary values entered by user.
- 22. Write a Python program to Calculate mean() value of Following Data. (Numpy) data1 = [11, 13, 14, 15, 17, 12].
- 23. Write a python programcreate a simple (pandas) dataframe with a list of tuples with following column names: 'Roll No', 'Student Name', 'Age', 'Course'

## Note: Submission date will be declared later on.

- 1. Students are requested to write all the programs in a project paper.
- 2. At the End of each program it's **compulsory** to write proper Output.
- 3. Punching and Page numbering should be in proper format.
- 4. Journal **Second page** should be Index with all proper details.



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5. Journal **First Page** must contain following details. (Roll No, Name, Class, Division, Subject and College Name)

6. **No** late submission will be accepted.

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