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1. Write a program to calculate the mean of a given list of numbers.
2. Write a program to calculate the minimum element of a given list of numbers.
3. Write a code to calculate and display total marks and percentage of a student from a given list storing the marks of a student.
4. Write a Program to multiply an element by 2 if it is an odd index for a given list containing both numbers and strings.
5. Write a Program to count the frequency of an element in a given list.
6. Write a Program to shift elements of a list so that the first element moves to the second index and second index moves to the third index, and so on, and the last element shifts to the first position.  
  
Suppose the list is [10,20,30,40]  
  
After shifting, it should look like: [40,10,20,30]
7. A list Num contains the following elements:  
  
3, 25, 13, 6, 35, 8, 14, 45  
  
Write a function to swap the content with the next value divisible by 5 so that the resultant list will look like:  
  
25, 3, 13, 35, 6, 8, 45, 14
8. Write a program to accept values from a user in a tuple. Add a tuple to it and display its elements one by one. Also display its maximum and minimum value.
9. Write a program to input any values for two tuples. Print it, interchange it and then compare them.
10. Write a Python program to input 'n' classes and names of their class teachers to store them in a dictionary and display the same. Also accept a particular class from the user and display the name of the class teacher of that class.
11. Write a program to store student names and their percentage in a dictionary and delete a particular student name from the dictionary. Also display the dictionary after deletion.
12. Write a Python program to input names of 'n' customers and their details like items bought, cost and phone number, etc., store them in a dictionary and display all the details in a tabular form.

13. Write a Python program to capitalize first and last letters of each word of a given string.
14. Write a Python program to remove duplicate characters of a given string.
15. Write a Python program to compute sum of digits of a given string.
16. Write a Python program to find the second most repeated word in a given string.
17. Write a Python program to change a given string to a new string where the first and last chars have been exchanged.
18. Write a Python program to multiply all the items in a list.
19. Write a Python program to get the smallest number from a list.
20. Write a Python program to append a list to the second list.
21. Write a Python program to generate and print a list of first and last 5 elements where the values are square of numbers between 1 and 30 (both included).
22. Write a Python program to get unique values from a list.
23. Write a Python program to convert a string to a list.
24. Write a Python script to concatenate the following dictionaries to create a new one:

```
d1 = { 'A':1, 'B':2, 'C':3 }
```

```
d2 = { 'D':4 }
```

Output should be:

```
{ 'A':1, 'B':2, 'C':3, 'D':4 }
```

25. Write a Python script to check if a given key already exists in a dictionary.
26. Read a text file line by line and display each word separated by a #.
27. Read a text file and display the number of vowels/ consonants/ uppercase/ lowercase characters in the file.
28. Write a program to remove all the lines that contain the character 'a' in a file and write it to another file.
29. Create a binary file 'result' with roll number, name and marks. Display all details. Input a roll number and update the marks. Search for a given roll number and display the name, if not found display appropriate message.
30. Write a Python program to implement a stack using a list data-structure employee. Write push() pop() and display() functions and call them in main program.

31. Write a menu driven program (i)to create binary file “employee” (ii) Enter details such as id name designation and department of employees (iii) Display details of all employees (iv) Search detail of an employee on the basis of id (v)Update designation of an employee.

32. Write a menu driven program to (i) create a text file poem.txt (ii)display contents of file poem.txt (iii) function to count words starting with alphabet ‘w’(iv) function to calculate size of text file poem.txt (v) function to count total number of alphabets(vii )function to copy text in new file new.txt after converting text in upper case.

33. Write a program to create a CSV\_file “product.csv”. Enter details such as product\_id, Product\_name, Product\_price . Display all the product details from file “product.csv”.

34. Write program to delete a product detail from the above csv file “product.csv”.

35. Write a menu driven program to create connectivity with a table ‘student’ already created in a database ‘school’ under MySql.

(i)Write function to insert data as admission number and name of student in above table ‘student’.

(ii)Write function to display data from table ‘student’.

(iii)Write function to change admission number of a student.

(iv)Write a function to delete detail of a student on the basis of admission number.

36. Write a menu driven program

(i)To create a stack of integers.

(ii) Display all the values from the stack.

(iii) Delete an element from the stack.

(iv) Display total number of values stored in a stack.

37. Write a menu driven program to create connectivity with a table ‘movie’ already created in a database ‘Entertainment’ under MySql.

(i)Write function to insert data as movie\_code,movie name and director name of movie in above table ‘movie’.

(ii)Write function to display data from table ‘movie ’ of a particular director.

(iii)Write function to change director name of a movie.

(iv)Write a function to delete detail of a movie on the basis of movie\_code.

38.ALL MySQL COMMAANDS