TCS NQT 2025 -14th April coding questions with solution.(2nd shift)

Learning With Ram

Video Solution link 👇 👇

https://youtu.be/mee0Z7aezSk

Q1)Write a program in to check whether two given strings are anagrams of each other or not.
Two strings are said to be anagrams if they contain the same characters in the same frequency, but possibly in a different order.

Input:
Two strings, str1 and str2.
Output:
Print "Anagrams" if the two strings are anagrams.
Print "Not Anagrams" otherwise.

Example:
Input:

str1 = "listen"
str2 = "silent"

Output:
Anagrams

eg-

str1- goat

str2- gone

not anagram

Code:-

```
#include <iostream>

#include <algorithm>

using namespace std;


bool areAnagrams(string str1, string str2) {

   // If lengths are not equal, they can't be anagrams

   if (str1.length() != str2.length())

      return false;
```

```
    // Sort both strings
    sort(str1.begin(), str1.end());
    sort(str2.begin(), str2.end());

    // Compare sorted strings
    return str1 == str2;
}

int main() {
    string str1, str2;

    cout << "Enter first string: ";
    cin >> str1;
    cout << "Enter second string: ";
    cin >> str2;

    if (areAnagrams(str1, str2))
        cout << "Anagrams" << endl;
    else
        cout << "Not Anagrams" << endl;

    return 0;
}
```

Q2)
Question: Standard Deviation of an Array
Problem Statement:
Write a C program to calculate the standard deviation of a given array of integers.

The formula for standard deviation is:

Your program should:
Read an integer n representing the number of elements in the array.
Read n integers.

Calculate the mean of the array.
Use the mean to compute the standard deviation.
Print the standard deviation rounded to 2 decimal places.

Input Format:
First line: An integer n (number of elements)
Second line: n space-separated integers
Output Format:
A single line containing the standard deviation as a double with 2 decimal places.

Example:
Input:
5
2 4 4 4 5
Output:
0.89

Code:-

```
#include <iostream>
#include <vector>
#include <cmath>
#include <iomanip>
using namespace std;

int main() {
    int n;
    cin >> n;

    vector<int> arr(n);
    double sum = 0.0;
    // Reading the array and calculating sum
    for (int i = 0; i < n; ++i) {
        cin >> arr[i];
        sum += arr[i];
    }
    // Calculating mean
```

```
    double mean = sum / n;

    // Calculating sum of squared differences from mean
    double sq_diff_sum = 0.0;
    for (int i = 0; i < n; ++i) {
        sq_diff_sum += pow(arr[i] - mean, 2);
    }

    // Calculating standard deviation
    double standard_deviation = sqrt(sq_diff_sum / n);

    // Output with 2 decimal places
    cout << fixed << setprecision(2) << standard_deviation << endl;

    return 0;
}
```

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