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**Batch:** 02

**Sub Code:** CSE2026

**Section:**  411

Lab

**# 01**

#include <iostream>

using namespace std;

intmain(){

char mString[20];

inti, mLength;

int flag = 0;

cout<< "Enter a String: ";

cin>>mString;

mLength = sizeof(mString);

while(i<mLength)

{

i++;

if(mString[i] != mString[mLength-i-1])

{

flag = 1;

break;

}

}

if (flag)

{

cout<<mString<< " is not a PALIDROME." <<endl;

}

else

{

cout<<mString<< " is a PALIDROME." <<endl;

}

return 0;

}

**# 02**

#include <iostream>

using namespace std;

intmain()

{

int r, c, a[50][50], b[50][50], sum[50][50], i, j;

cout<< "Put number of rows up to 50: ";

cin>> r;

cout<< "Put number of columns up to 50: ";

cin>> c;

cout<<endl<< "Put elements of 1st matrix: " <<endl;

while(i<r)

{

i++;

while(j<c)

{

j++;

cout<< "Put element a" <<i + 1 << j + 1 <<" : ";

cin>> a[i][j];

}

}

cout<<endl<< "Put elements of 2nd matrix: " <<endl;

while(i<r)

{

i++;

while(j<c)

{

j++;

cout<< "Put element b" <<i + 1 << j + 1 <<" : ";

cin>> b[i][j];

}

}

while(i<r)

{

i++;

while(j<c)

{

j++;

sum[i][j] = a[i][j] + b[i][j];

}

}

cout<<endl<< "Sum of two matrix is: " <<endl;

while(i<r)

{

i++;

while(j<c)

{

cout<< sum[i][j] <<" ";

if(j == c - 1)

cout<<endl;

}

}

return 0;

}

**# 03**

#include <iostream>

using namespace std;

intmain()

{

int n, i=0;

float num[50], sum=0.0, mAverage;

cout<< "Put the numbers of data: ";

cin>> n;

if (n>50 || n<=0)

{

cout<< "Error! number should in range of (1 to 50)." << "\nPut the number again." <<endl;

cin>> n;

}

for(i = 0; i< n; ++i)

{

cout<<i + 1 << ": Put a number: ";

cin>>num[i];

sum += num[i];

}

mAverage = sum / n;

cout<< "Average = " <<mAverage;

return 0;

}

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Lab Assignment : 02

#1

|  |  |  |
| --- | --- | --- |
| |  | | --- | | https://mail.google.com/mail/u/1/images/cleardot.gif | |  |

#include<iostream>

using namespace std;

void bubbleSort(int arr[],int n){

int tmp;

for(int i = 0; i < n-1; i++){

for(int j = 0; j < n-i-1; j++){

if(arr[j] > arr[j+1]){

tmp = arr[j];

arr[j] = arr[j+1];

arr[j+1] = tmp;

}

}

}

}

void printArray(int arr[], int n){

for(int i = 0; i < n; i++)

cout << arr[i] << " "; //printing single elements

cout << endl; //printing newline

}

int main(){

int arr[] = {21, 31, 45, 10, 15};

int n = sizeof(arr)/sizeof(arr[0]);

cout << "Before sorting: ";

printArray(arr,n);

bubbleSort(arr,n);

cout << "After sorting: ";

printArray(arr,n);

return 0;

}

#2

#include<iostream>

using namespace std;

void bubbleSort(int arr[],int n){

int tmp;

for(int i = 0; i < n-1; i++){

for(int j = 0; j < n-i-1; j++){

if(arr[j] > arr[j+1]){

tmp = arr[j];

arr[j] = arr[j+1];

arr[j+1] = tmp;

}

}

}

}

void printArray(int arr[], int n){

for(int i = 0; i < n; i++)

cout << arr[i] << " "; //printing single elements

cout << endl; //printing newline

}

int main(){

int arr[] = {21, 31, 45, 10, 15};

int n = sizeof(arr)/sizeof(arr[0]);

cout << "Before sorting: ";

printArray(arr,n);

bubbleSort(arr,n);

cout << "After sorting: ";

printArray(arr,n);

return 0;

}