**Algorithm Lab Report**

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**Assignment : 02**

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**Batch: 02**

**Sub Code: CSE2026**

**Section: 411**

**1st program:**

**#include <iostream>**

**using namespace std;**

**int main(){**

**char value[25];**

**int i, j;**

**int flag = 0;**

**cout << "Enter a String value: "<<endl;**

**cin >> value;**

**j = sizeof(value);**

**while(i < j)**

**{**

**i++;**

**if(value[i] != value[j-i-1])**

**{**

**flag = 1;**

**break;**

**}**

**}**

**if (flag)**

**{**

**cout << value << " This is a palindrome." << endl;**

**}**

**else**

**{**

**cout << value<< " This is not a palindrome." << endl;**

**}**

**return 0;**

**}**

**2nd program:**

#include <iostream>

using namespace std;

int main()

{

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;

}

**3rd program:**

#include<iostream>

using namespace std;

int main(){

int n=100;

int arr[n];

int sum =0;

int average;

cout << "Enter the number of elements" << endl;

cin >> n;

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

{

cout<<"The value "<<i+1<<":";

cin>>arr[i];

}

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

{

sum=sum+arr[j];

}

average=sum/n;

cout<<"The Average value of "<<n<< "number is :"<<average;

return 0;

}