**1\_Write a C++ Program that take the number of Rows and Columns from**

**The user and then take the matrix and print it then print its transpose**

**Matrix.**

#include <iostream>

using namespace std;

int main()

{

int rows, colm ;

cout << "enter number of rows : ";

cin >> rows;

cout << "enter number of columns : ";

cin >> colm;

int n[rows][colm];

cout << "Enter the elements of the matrix:\n";

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

{

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

{

cout << "Enter element (" << i << ", " << j << "): ";

cin >> n[i][j];

}

}

cout << "the Matrixe is : " << endl;

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

{

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

{

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

}

cout << endl;

}

cout << endl

<< "the Transpose Matrix is : " << endl;

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

{

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

{

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

}

cout << endl;

}

return 0;

}

#include <iostream>

using namespace std;

int main()

{

int rows, colm ;

cout << "enter number of rows : ";

cin >> rows;

cout << "enter number of columns : ";

cin >> colm;

int n[rows][colm];

cout << "Enter the elements of the matrix:\n";

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

{

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

{

cout << "Enter element (" << i << ", " << j << "): ";

cin >> n[i][j];

}

}

cout << "the Matrixe is : " << endl;

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

{

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

{

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

}

cout << endl;

}

cout << endl

<< "the Transpose Matrix is : " << endl;

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

{

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

{

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

}

cout << endl;

}

return 0;

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int rows, colm ;

cout << "enter number of rows : ";

cin >> rows;

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int n[rows][colm];

cout << "Enter the elements of the matrix:\n";

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

{

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

{

cout << "Enter element (" << i << ", " << j << "): ";

cin >> n[i][j];

}

}

cout << "the Matrixe is : " << endl;

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

{

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

{

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

}

cout << endl;

}

cout << endl

<< "the Transpose Matrix is : " << endl;

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

{

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

{

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

}

cout << endl;

}

return 0;

}

#include <iostream>

using namespace std;

int main()

{

int rows, colm ;

cout << "enter number of rows : ";

cin >> rows;

cout << "enter number of columns : ";

cin >> colm;

int n[rows][colm];

cout << "Enter the elements of the matrix:\n";

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

{

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

{

cout << "Enter element (" << i << ", " << j << "): ";

cin >> n[i][j];

}

}

cout << "the Matrixe is : " << endl;

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

{

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

{

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

}

cout << endl;

}

cout << endl

<< "the Transpose Matrix is : " << endl;

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

{

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

{

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

}

cout << endl;

}

return 0;

}