TASK 1

#include<iostream>

using namespace std;

int main()

{

int arr[3][3]={{1,2,3},{4,5,6},{7,8,9}};

int rightsum=0,leftsum=0;

for(int i=0;i<3;i++){

for(int j=0;j<3;j++){

if(i==j){

leftsum=leftsum+arr[i][j];

}

}

}

for(int i=0;i<3;i++){

for(int j=0;j<3;j++){

if(i+j==2){

rightsum=rightsum+arr[i][j];

}

}

}

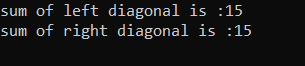
cout<<"sum of left diagonal is :"<<leftsum<<endl;

cout<<"sum of right diagonal is :"<<rightsum<<endl;

return 0;

}

The console is:



TASK 2

#include<iostream>

using namespace std;

void addArr(int arr1[3][3], int arr2[3][3], int arrsum[3][3]) {

for (int i = 0; i < 3; ++i) {

for (int j = 0; j < 3; ++j) {

arrsum[i][j] = arr1[i][j] + arr2[i][j];

}

}

}

int main()

{

int first[3][3]={{1,2,3},{4,5,6},{7,8,9}},second[3][3]={{7,8,9},{4,5,6},{1,2,3}},sum[3][3];

addArr(first,second,sum);

for(int i=0;i<3;i++){

for(int j=0;j<3;j++){

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

}

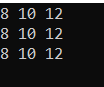
cout<<endl;

}

return 0;

}

The console is:



TASK 3

#include<iostream>

using namespace std;

void transpose(int arr[3][3], int trp[3][3]);

int main()

{

int first[3][3]={{1,2,3},{4,5,6},{7,8,9}},trps[3][3];

transpose(first,trps);

for(int i=0;i<3;i++){

for(int j=0;j<3;j++){

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

}

cout<<endl;

}

return 0;

}

void transpose(int arr[3][3], int trp[3][3]){

for(int i=0;i<3;i++){

for(int j=0;j<3;j++){

trp[i][j]=arr[j][i];

}

}

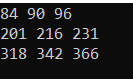
}

The console is:



TASK 4

The console is:



#include<iostream>

using namespace std;

void multiply(int arr1[3][3],int arr2[3][3],int product[3][3]);

int main()

{

int first[3][3]={{1,2,3},{4,5,6},{7,8,9}},second[3][3]={{10,11,12},{13,14,15},{16,17,18}},answer[3][3];

multiply(first,second,answer);

for(int i=0;i<3;i++){

for (int j=0;j<3;j++){

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

}

cout<<endl;

}

}

void multiply(int arr1[3][3],int arr2[3][3],int product[3][3]){

for(int i = 0; i <3; ++i){

for(int j = 0; j <3; ++j){

product[i][j] = 0;

for(int k = 0; k <3; ++k) {

product[i][j]+=arr1[i][k]\*arr2[k][j];

}

}

}

}

TASK 5

#include<iostream>

using namespace std;

int fifteentable(int a,int b);

int main()

{

int start=1,stop=10;

fifteentable(start,stop);

return 0;

}

int fifteentable(int a,int b){

if(a>b){

return 1;

}

else{

cout << "15\*" << a << " = " << 15\*a <<endl;

fifteentable(a + 1, b);

}

}

The console is:

