1)

```
#include "stdafx.h"
#include<iostream>
using namespace std;



int suma(int **tab, int n, int m)
{
	int suma;
	__asm
	{
	pushad;
		pushf;
		xor eax, eax;
		mov ecx, n;
		mov esi, tab;
	petla2:
		mov edi, [esi + 4 * ecx - 4];
		mov ebx, m;
	petla1:
		add eax, [edi + 4 * ebx - 4];
		dec ebx;
		jnz petla1;
		dec ecx;
		jnz petla2;
		mov suma, eax;
		popf;
		popad;
	}
	return suma;
}

int* iloczyn(int **tab, int *wek, int n, int m)
{
	int *ilo = new int[m];
	__asm
	{
		pushad;
		pushf;
		mov ecx, n;
		mov edi, wek;
		mov edx, ilo;
	petla2:
		mov esi, tab;
```

```
		mov esi, [esi + 4 * ecx - 4];
		xor eax, eax;
		push ecx;
		mov ecx, m;
	petla1:
		mov ebx, [esi + 4 * ecx - 4];
		imul ebx, [edi + 4 * ecx - 4];
		add eax, ebx;
		loop petla1;
		pop ecx;
		mov [edx + 4 * ecx - 4], eax;
		loop petla2;
		popf;
		popad;
	}
	return ilo;
}

int _tmain(int argc, _TCHAR* argv[])

{
	//suma elementow macierzy
	int n,m;
	cout << "Podaj liczbe wierszy: ";
	cin >> n;
	cout << "Podaj liczbe kolumn: ";
	cin >> m;
	int **tab = new int*[n];
	for (int i = 0; i < n; i++)
		tab[i] = new int[m];
	cout << "Podaj elementy macierzy: " << endl;
	for (int i = 0; i < n; i++)
		for (int j = 0; j < m;j++)
			cin >> tab[i][j];
	cout << "Suma= " << suma(tab, n,m) << endl;

	//mnozenie macierzy i wektora
	int *wek = new int[m];
	int *ilo = new int[n];
	cout << "Macierz juz masz teraz podaj wektor: " << endl;
	for (int i = 0; i < m; i++)
		cin >> wek[i];
	ilo = iloczyn(tab, wek, n, m);
	for (int i = 0; i < n; i++)
		cout << ilo[i] << " ";
	cout << endl;
```

```
	delete[] wek;
	delete[] ilo;
	for (int i = 0; i < n; i++)
		delete[] tab[i];
	delete[]tab;
	system("Pause");
	return 0;
}
```

2)

```
// lab05.cpp : Defines the entry point for the console application.
//
#include "stdafx.h"
#include <iostream>
using namespace std;

int suma(int **tab, int n1, int n2)
{
	int wynik;
	__asm{
		xor eax, eax;
		mov ecx, n1;
		mov esi, tab;
	petla1:
		mov edi, [esi + 4 * ecx - 4];
		mov ebx, n2;
	petla2:
		add eax, [edi + 4 * ebx - 4];
		dec ebx;
		jnz petla2;
		loop petla1;
		mov wynik, eax;
	}
	return wynik;
}

int _tmain(int argc, _TCHAR* argv[])
{
	int n = 2;
	int **tab = new int*[n];
	for (int i = 0; i < n; i++)
	{
		tab[i] = new int[n];
		for (int j = 0; j < n; j++)
		{
			cin >> tab[i][j];
```

```
                }
        }
        cout << suma(tab, 2, 2) << endl;
        system("pause");
        return 0;
}
```