

برديا نيك بخش

پروژه: جمع دو عدد حداقل بیست رقمی و حداکثر ۸۰ رقمی

```

#include <iostream>
#include <stdio.h>
using namespace std;
bool checknumber(char num[])
{
    int i = 0;
    while (num[i])
    {
        if (num[i] < '0' || num[i] > '9') return false;
        i++;
    }
    return true;
}
int main()
{
    char a[81], b[81], c[82];
    int min, max, i, carry = 0, ragham1, ragham2;
    cout << "enter number 1 : " << endl;
    cin >> a;
    if (checknumber(a) == false)
    {
        cout << "wrong number ";
        return 0;
    }
    cout << "enter number 2 : " << endl;
    cin >> b;
    if (checknumber(b) == false)
    {
        cout << "wrong number ";
        return 0;
    }
    int l1, l2;
    cout << "enter number of digits of num1 : " << endl;
    cin >> l1;
    cout << "enter number of digits of num2 : " << endl;
    cin >> l2;
    if (l1 > l2) max = l1;
    else max = l2;
    ragham1 = l1 - 1;
    ragham2 = l2 - 1;
    for (i = max; i >= 0; i--)
    {
        if (ragham1 == -1)
        {
            ragham1 = 0;
            a[ragham1] = '0';
        }
        if (ragham2 == -1)
        {
            ragham2 = 0;
            b[ragham2] = '0';
        }
        c[i] = carry + (a[ragham1] - 48) + (b[ragham2] - 48);
        c[i] %= 10;
        carry = (carry + (a[ragham1] - 48) + (b[ragham2] - 48));
        carry = carry / 10;
        ragham1--;
        ragham2--;
    }
    cout << "result : " << endl;
    for (i = 0; i <= max; i++)
    {
        printf("%d", c[i]);
    }
}

```

```
}  
    return 0;  
}
```

نمونه‌ای از ران کردن برنامه:

Microsoft Visual Studio Debug Console

```
enter number 1 :  
1639875495369874168965414  
enter number 2 :  
3974123695748963478962014574103245  
enter number of digits of num1 :  
25  
enter number of digits of num2 :  
34  
result :  
03974123697388838974331888743068659  
C:\Users\Bardia\Desktop\mabaniproj\Project1\Debug\Project1.exe (process 3672) exited with code 0.  
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automati  
le when debugging stops.  
Press any key to close this window . . .  
_
```