Name: Ainazik

Last name: Kamaldinova

Systems_Programming: Lab_4

Question 1)

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AinazikKamaldin / Lab_4 🕝 🕟
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                                      main.cpp
Files
                       D .
                                            #include <iostream>
😊 main.cpp
                                            using namespace std;
                                            // This function gives the result of the Sum void BigSumProblem(int *array1,int *array2,int* result)
  nain
                                                int j=21,carry = 0;
                                                for(int i=19; i>=0; i--)
                                                    *(result+j) = *(array1+i) + *(array2+i) + carry;
                                                     if(*(result+j)>=10)
                                                        *(result+j) = (*(result+j))%10;
                                      14
                                                        carry = 1;
                                      15
16
                                                    j--;
                                      17
                                                if(carry)
                                      20
                                                    *(result+j)=1;
                                                while(j>=0)
{
                                      25
26
27
                                                     *(result+j) = 0;
                                      28
29
                                      30
31
32
                                            void StoringInArray(int array[],string str)// This Function Store our Data to Our INPUT Arrays
                                                int n = str.size();
                                      33
34
                                                for(int i=19;i>=0;i--)
                                      35
36
                                                    if(n>=0)
```

```
Stop 

 Files
                      ⊕ : ⊕ :
                                                     // Here (int) convert our Input to an Integer
  🚱 main.cp
                                    39
                                    40
                                                     array[i] = (int)(str[n]-'0');
                                    41
                                    43
44
                                                else
array[i] = 0;
                                    45
                                    46
                                         int main() {
                                             // Declaring String type for Input
                                    48
                                             string str;
                                             int i = 0;
// Declaring Two Integer type Array for Input
                                             int array1[20];
                                    53
                                            int array2[20];
                                             // Declaring One Integer type Array for Output/result.
                                            int result[22];
                                    57
                                             // Taking Input From the User
                                             cout<<"Please enter first integer: ";</pre>
                                    60
                                             cin>>str:
                                             StoringInArray(array1,str);
                                             cout<<"Now second: ";
                                    63
                                             cin>>str;
                                             StoringInArray(array2,str);
                                             // Calling the Sum Function
                                    67
68
                                             BigSumProblem(array1,array2,result);
                                             cout<<" Total = ":
                                    69
70
                                             while(result[i]==0)
                                             for(:i<22:i++)
                                                 cout<<result[i];
```

Output 1:

```
clang++-7 -pthread -std=c++17 -o main main.cpp
./main
Please enter first integer: 234567483902847
Now second: 5748390284735637482390
Total = 48390519303121385237.
```

Question 2)

```
Run ▶
                                                                                                         E
 Files
                   + +
                                1 #include <bits/stdc++.h>
                                2 using namespace std;
   main.cpp
    nain
                                 5 void func(string s,string find,string replace)
                                 6 {
                                    vector<string> v;
                                 8 int i;
                                9 string temp="";
                                10 for(i=0;i<s.length();i++)</pre>
                                11 {
                                12    if(s[i]==' ')
13    { v.push_back(temp);
                                14 temp="";
                               16 else
                                17 temp+=s[i];
18 }
                                v.push_back(temp);
                               20 for(i=0;i<v.size();i++)</pre>
                                22 if(v[i].compare(find)==0)
                               23 {
24 cout<<replace<<" ";
                                25 }
                                26 else
                                27 cout<<v[i]<<" ";</pre>
                                28 }
```

Output 2:

```
    clang++-7 -pthread -std=c++17 -o main main.cpp
    ./main
    A quick brown fox jumps over the lazy dog fox
    tiger
    A quick brown tiger jumps over the lazy dog
```