

Lab Task #7

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**ME-15B** 

## TASK 1

```
#include <iostream>
using namespace std;
int main()
{
   int array[9] = {};

   for (int i; i < 10; ++i){
      cout << "Index " << i + 1 << ": ";
      cin >> array[i];
   }
   for (int i; i < 10; ++i){
      cout << array[i] << "\t";
   }

   return 0;
}</pre>
```

```
main.cpp
  1 #include <iostream>
  2 using namespace std;
  3 int main()
  4 - {
         int array[9] = {};
         for (int i; i < 10; ++i){
             cout << "Index " << i + 1 << ": ";</pre>
             cin >> array[i];
         for (int i; i < 10; ++i){
  11 -
  12
             cout << array[i] << "\t";</pre>
          3
  13
  15
         return 0;
 16 }
                                                       input
V 2 3
Index 1: 1
Index 2: 2
Index 3: 3
Index 4: 4
Index 5: 5
Index 6: 6
Index 7: 7
Index 8: 8
Index 9: 9
Index 10: 10
               3
                     4
                              5 6 7
                                                     8 9
                                                                     10
```

...Program finished with exit code 0

Press ENTER to exit console.

## TASK 2

```
#include <iostream>
using namespace std;
int main()
{
      int array[] = \{10,20,30,40,50\};
      int sum = 0, product = 1, temp;
      for (int i = 0; i < 5; i++){
      temp = array[i];
      product = product * temp;
      sum = sum + temp;
      }
      cout << "Sum: " << sum<< endl;
      cout << "Product: " << product;</pre>
      return 0;
}
     main.cpp
        1 #include <iostream>
        2 using namespace std;
        4 int main()
                int array[] = \{10,20,30,40,50\};
                int sum = 0, product = 1, temp;
                for (int i = 0; i < 5; i++){
                    temp = array[i];
                    product = product * temp;
       11
                    sum = sum + temp;
       12
       13
                cout << "Sum: " << sum<< endl;</pre>
                cout << "Product: " << product;</pre>
       15
                return 0;
       16 }
  <
     Y 2 3
    Product: 12000000
    ...Program finished with exit code 0
    Press ENTER to exit console.
```

## TASK<sub>3</sub>

```
#include <iostream>
using namespace std;
int main() {
       int mid_row;
       cout << "Enter lines till half of diamond: ";
       cin >> mid_row;
       cout << endl;
       int size = 2 * mid_row - 1;
       char diamond[size + 1] = {};
      for (int i = 0; i < size; ++i) {
       diamond[i] = ' ';
      for (int i; i < mid_row; ++i) {
       diamond[mid_row - i] = '*';
       diamond[mid_row + i] = '*';
      for (int j = 0; j \le size; ++j) {
       cout << diamond[j];</pre>
      }
       cout << endl;
       for (int i = mid row - 1; i > 0; --i) {
       diamond[mid_row - i] = diamond[mid_row + i] = ' ';
       for (int j = 0; j \le size; ++j) {
       cout << diamond[j];
       cout << endl;
      }
       return 0;
}
```

```
2 using namespace std;
  3 - int main() {
          int mid row;
          cout << "Enter lines till half of diamond: ";</pre>
          cin >> mid row;
          cout << endl;
int cize = ?</pre>
V / 3
Enter lines till half of diamond: 12
```