NUST

NATIONAL UNIVERSITY
OF SCIENCES & TECHNOLOGY

FUNDAMENTALS OF PROGRAMMING

LAB MANUAL-7

LAB TASKS

ME-15C

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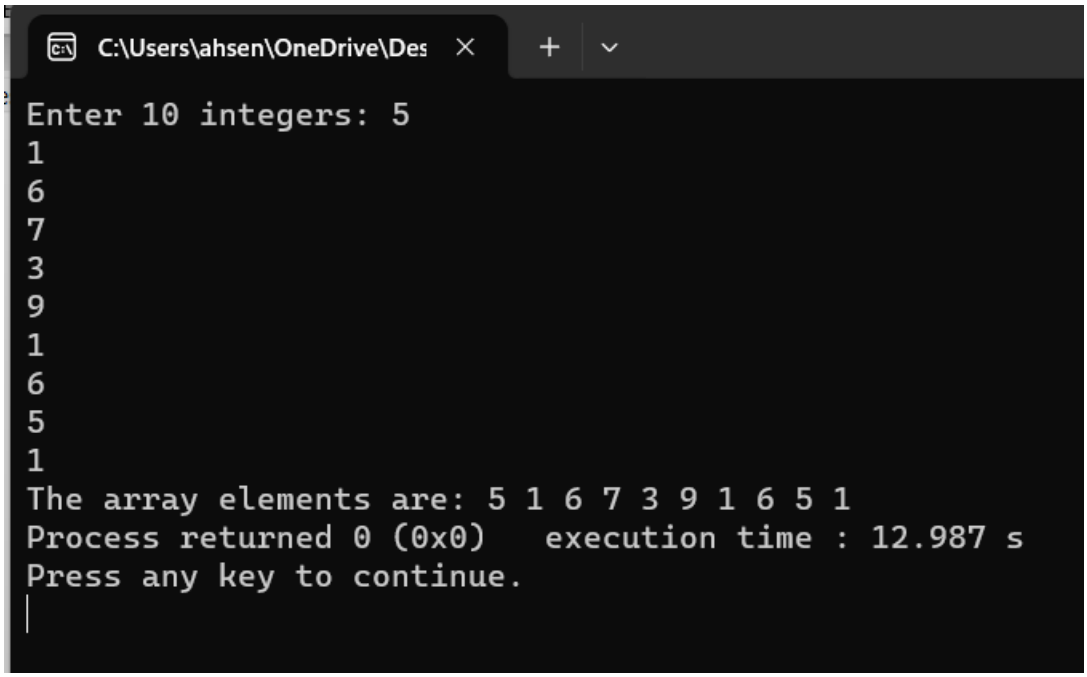
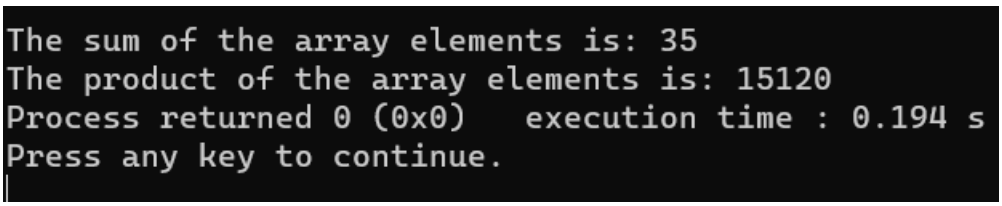
```
#include <iostream>
using namespace std;

int main()
{
   int arr[10];
   cout << "Enter 10 integers: ";
   for (int i = 0; i < 10; i++)
   {
      cin >> arr[i];
   }
   cout << "The array elements are: ";
   for (int i = 0; i < 10; i++)
   {
      cout << arr[i] << " ";
   }
   return 0;
}
```



```
#include<iostream>
using namespace std;
int main()
{
   int arr[5] = {5, 6, 7, 8, 9};
   int sum = 0, product = 1;
   for (int i = 0; i < 5; i++)
   {
      sum += arr[i];
      product *= arr[i];
   }
   cout << "The sum of the array elements is: " << sum<<endl;
   cout << "The product of the array elements is: " << product;
   return 0;
}
```

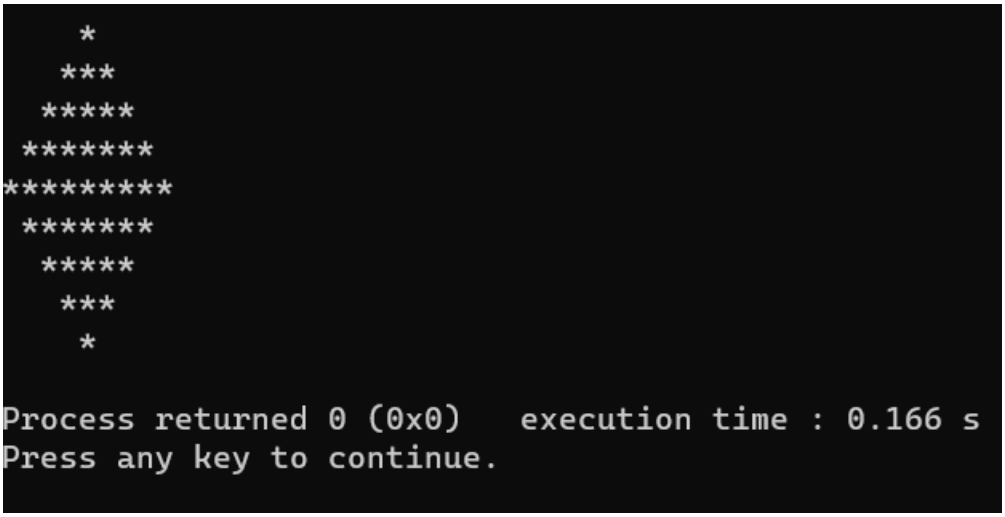


```
#include <iostream>

int main() {
    int n = 5;

    for (int i = 0; i < n; i++) {
        for (int j = 0; j < n - i - 1; j++) {
            std::cout << " ";
        }
        for (int j = 0; j < 2 * i + 1; j++) {
            std::cout << "*";
        }
        std::cout << std::endl;
    }

    for (int i = n - 2; i >= 0; i--) {
        for (int j = 0; j < n - i - 1; j++) {
            std::cout << " ";
        }
        for (int j = 0; j < 2 * i + 1; j++) {
            std::cout << "*";
        }
        std::cout << std::endl;
    }
    return 0;
}
```


*
***
*****
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*
Process returned 0 (0x0) execution time : 0.166 s
Press any key to continue.