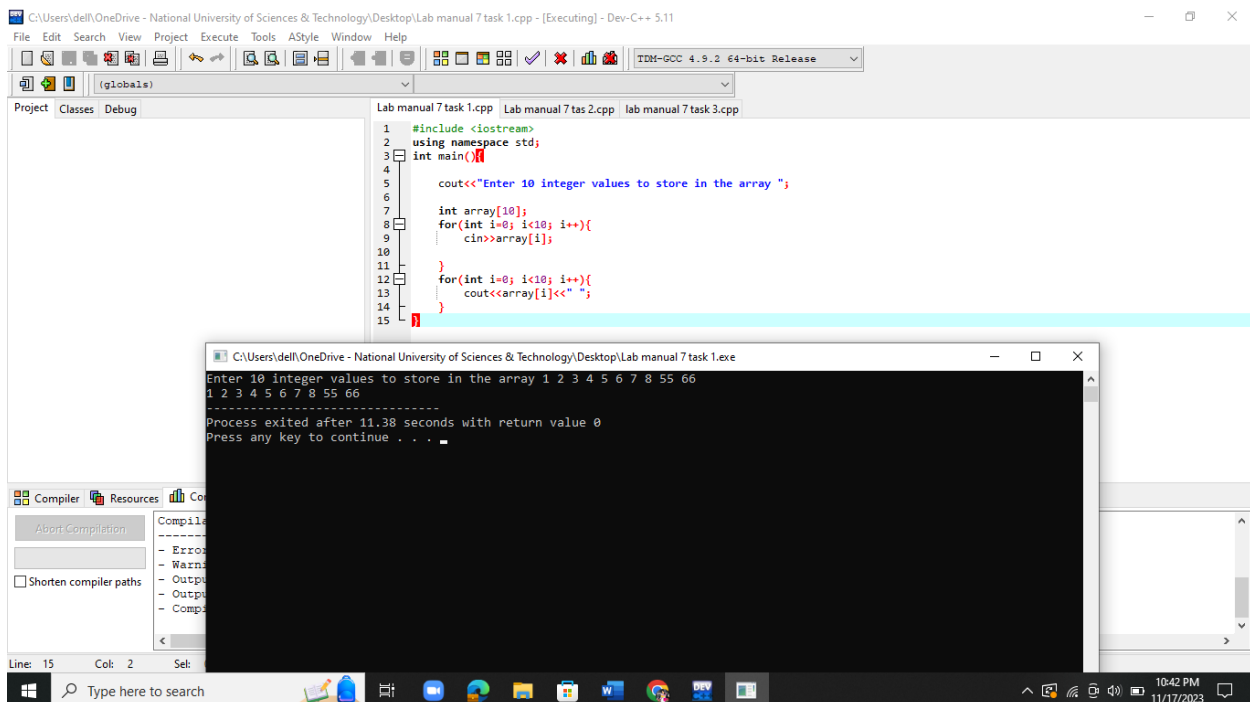


Lab Manual 7:

Question 1:

1. `#include <iostream>`
2. `using namespace std;`
3. `int main(){`
- 4.
5. `cout<<"Enter 10 integer values to store in the array ";`
- 6.
7. `int array[10];`
8. `for(int i=0; i<10; i++){`
9. `cin>>array[i];`
- 10.
11. `}`
12. `for(int i=0; i<10; i++){`
13. `cout<<array[i]<<" ";`
14. `}`
15. `}`



Question 2:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.     int product, sum;
5.     cout<<"Enter the 5 elements of the array";
6.     int ele[5];
7.     for(int i=0; i<5; i++){
8.         cin>>ele[i];
9.
10.    }
11.    sum=ele[0]+ele[1]+ele[2]+ele[3]+ele[4];
12.    cout<<"The sum of the elements in the array is"<<sum<<endl;
13.    product=ele[0]*ele[1]*ele[2]*ele[3]*ele[4];
14.    cout<<"The product of the elements in the array is"<<product;
15.}
```

The screenshot shows a C++ IDE with the following components:

- Editor:** Displays the C++ code for Question 2, which calculates the sum and product of 5 array elements. The code is numbered 1 to 15.
- Output Window:** Shows the execution results for '2.exe'. It displays the prompt 'Enter the 5 elements of the array', the input '2 3 4 5 6', and the calculated results: 'The sum of the elements in the array is 20' and 'The product of the elements in the array is 720'. It also shows the process exit time and a prompt to press any key to continue.
- Task List:** Shows three tasks: 'Lab manual 7 task 1.cpp', 'Lab manual 7 tas 2.cpp' (selected), and 'lab manual 7 task 3.cpp'.
- Compiler:** Shows the compiler settings for 'TDM-GCC 4.9.2 64-bit Release'.

Question 3:

```
1. #include <iostream>
```

```
2. using namespace std;
3. int main(){
4.     int c=9,d=9;
5.     char sta[c];
6.     for(int i=0; i<c; i++){
7.         sta[i]=' ';
8.     }
9.     for(int j=0; j<d/2; j++){
10.        for(int k=0; k<c; k++){
11.            if(k>=c/2-j&& k<=c/2+j){
12.                sta[k]='*';
13.            }
14.            else{
15.                sta[k]=' ';
16.            }
17.            cout<<sta[k];
18.        }
19.        cout<<endl;
20.    }
21.    for(int k=0; k<d/2; k++){
22.        for(int i=0; i<c; i++){
23.            if(i>=k+1&& i<=c-(k+2)){
24.                sta[i]='*';
25.            }
26.            else{
27.                sta[i]=' ';
28.            }
29.            cout<<sta[i];
30.        }
31.        cout<<endl;
32.    }
33.    cout<<endl;
34. }
35.
36.}
```

