

- **Lab Task 7 (lab task)**

NAME: HAMDAN HAFEEZ

ROLL: 480469

- **Q 1:**

```
#include <iostream>

using namespace std;

int main() {
    int numbers[10];

    for (int i = 0; i < 10; i++) {
        cout << "Enter the integer " << i + 1 << ": ";
        cin >> numbers[i];
    }

    cout << endl;
    cout << "The numbers you have entered  
are:" << endl;

    for (int i = 0; i < 10; i++) {
        cout << numbers[i] << " ";
    }

    return 0;
}
```

- **Q 2:**

```
int main() {
    const int length = 5;
    int arr[length];
    cout << "Enter 5 integers:" << endl;
    for (int m = 0; m < length; ++m) {
        cout << "Enter an integer: ";
        cin >> arr[m];
    }
    int sum = 0;
    int product = 1;
```

```

    for (int m = 0; m < length; ++m) {
        sum += arr[m];
        product *= arr[m];
    }
    cout << "the Sum of array elements: " << sum << endl;
    cout << "the Product of array elements: " << product << endl;

    return 0;
}

```

• Q 3:

```

#include <iostream>
using namespace std;

int main() {
    int n, i, j, k;
    cout << "Enter the number of the rows: ";
    cin >> n;
    k = n;
    for (i = 1; i <= n; i++) {
        for (j = 1; j <= k; j++) {
            cout << " ";
        }
        k--;
        for (j = 1; j <= 2 * i - 1; j++) {
            cout << "**";
        }
        cout << endl;
    }
    k = 1;
    for (i = n - 1; i >= 1; i--) {
        for (j = 1; j <= k; j++) {
            cout << " ";
        }
        k++;
        for (j = 1; j <= 2 * i - 1; j++) {
            cout << "**";
        }
        cout << endl;
    }
    return 0;
}

```