

Lab 6 task 1(A)

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

int main() {
    int rows = 8;
    int i = 1;

    while (i <= rows) {
        int j = 1;
        while (j <= i) {
            cout << "*" << " ";
            j++;
        }
        cout << endl;
        i++;
    }

    return 0;
}
```

Task 2(B)

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

int main() {
    int rows = 8; // Number of rows in the pattern
    int i = 1;    // Outer loop counter

    while (i <= rows) {
        int j = 1; // Inner loop counter
        while (j <= i) {
            cout << "*" << " ";
            j++;
        }
        cout << endl;
        i++;
    }

    return 0;
}
```

```

#include <iostream>
using namespace std;

int main() {
    int rows;
    cout << "Enter the number of rows: ";
    cin >> rows;
    int i = 1;

    while (i <= rows) {
        int j = 1;
        while (j <= i) {
            cout << j << " ";
            j++;
        }
        cout << endl;
        i++;
    }

    return 0;
}

```

Task 2(A)

```

#include <iostream>
using namespace std;

int main() {
    int rows = 5;

    for (int i = 1; i <= rows; i++) {
        for (int j = 1; j <= i; j++) {
            cout << j << " ";
        }
        cout << endl;
    }

    return 0;
}

```

Task 3(A)

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

int main() {
    int rows;
    cout << "Enter the number of rows: ";
    cin >> rows;

    for (int i = 1; i <= rows; i++) {
        for (int j = 1; j <= i; j++) {
            cout << i << " ";
        }
        cout << endl;
    }

    return 0;
}
```

Task 3(B)

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

int main() {
    int rows;
    cout << "Enter the number of rows: ";
    cin >> rows;

    int i = 1;
    while (i <= rows) {
        int j = 1;
        while (j <= i) {
            cout << i << " ";
            j++;
        }
        cout << endl;
        i++;
    }

    return 0;
}
```

Task 4(A)

```

#include <iostream>
using namespace std;

int main() {
    const int weeks = 3;
    const int daysPerWeek = 7;

    for (int week = 1; week <= weeks; week++) {
        cout << "Week " << week << ":" << endl;
        for (int day = 1; day <= daysPerWeek; day++) {
            cout << "  Day " << day << endl;
        }
        cout << endl;
    }

    return 0;
}

```

Task 4(B)

```

#include <iostream>
using namespace std;

int main() {
    const int weeks = 3;
    const int daysPerWeek = 7;

    int week = 1;
    while (week <= weeks) {
        cout << "Week " << week << ":" << endl;
        int day = 1;
        while (day <= daysPerWeek) {
            cout << "  Day " << day << endl;
            day++;
        }
        cout << endl;
        week++;
    }

    return 0;
}

```