

Week 4 Assignment

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1. Source code:

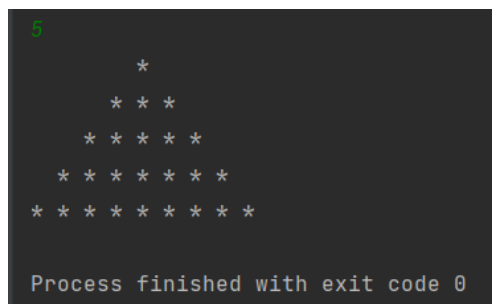
```
#include <iostream>
using namespace std;

int main() {
    int n;
    cin >> n;

    for (int i = 1, k=0; i <= n; ++i, k=0) {
        for (int j = 1; j <= (n-i); ++j) {
            cout << " ";
        }
        while(k != (2*i-1)){
            cout << "* ";
            ++k;
        }
        cout << endl;
    }

    return 0;
}
```

Sceenshot:



2. Source code:

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

int main() {
    int n;
    cin >> n;
```

```

cout << "      ";

for (int i=0; i<=n; i++) {
    cout << i << " ";
}

cout << endl;

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

return 0;
}

```

Screenshot:

```

3
      0 1 2 3
0 - 0 0 0 0
1 - 0 1 2 3
2 - 0 2 4 6
3 - 0 3 6 9

Process finished with exit code 0

```

```

5
      0 1 2 3 4 5
0 - 0 0 0 0 0 0
1 - 0 1 2 3 4 5
2 - 0 2 4 6 8 10
3 - 0 3 6 9 12 15
4 - 0 4 8 12 16 20
5 - 0 5 10 15 20 25

Process finished with exit code 0

```

3. Source code:

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

int main() {
    int n;
    cin >> n;
    for (int i=n; i>=0; i--){
        if (i%2 == 0) {
            cout << i << " ";
        }
    }

    return 0;
}
```

Screenshot:

```
7
6 4 2 0
Process finished with exit code 0
```

```
13
12 10 8 6 4 2 0
Process finished with exit code 0
```

4. Source code:

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

int main() {
    int n, m;
    cin >> n >> m;

    for (int i=1; i<=n; i++){
        if (i%m ==0) {
            cout << "*" << " ";
        }else{
            cout << i << " ";
        }
    }

    return 0;
}
```

Screenshot:

```
15 4
1 2 3 * 5 6 7 * 9 10 11 * 13 14 15
Process finished with exit code 0
```

```
11 3
1 2 * 4 5 * 7 8 * 10 11
Process finished with exit code 0
```