

2018 - 2 - b

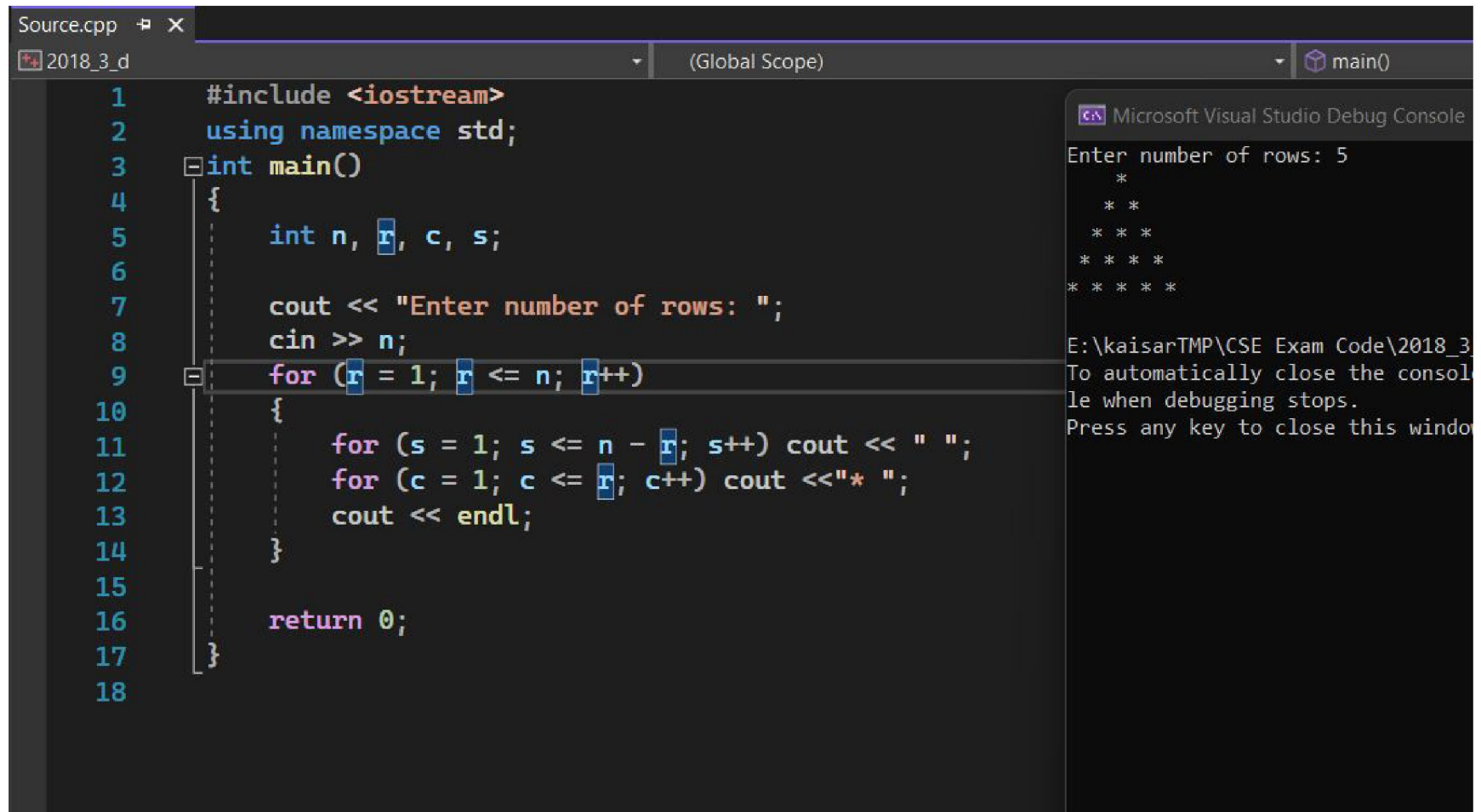
```
Source.cpp 2018_2_b (Global Scope) main()
1  #include <iostream>
2
3  using namespace std;
4  int main() {
5
6      int x = 5, y = 20, k = 2;
7      if (x > y) {          //no output cz 5 > 20 not true so nothing will happen
8          if (y > k) {
9              k = x;
10             }
11         else {
12             k = x + y;
13             cout << k;
14         }
15     }
16
17     return 0;
18 }
19
```

2018 - 2 - c

```
Source.cpp  [X]
2018_2_c    (Global Scope)

1  #include <iostream>
2  using namespace std;
3  int main() {
4      int num;
5      cout << "Input Number: ";
6      cin >> num;
7      if (num % 2 == 0) {
8          cout << num << " is Even Number" << endl;
9      }
10     else {
11         cout << num << " is Odd Number" << endl;
12     }
13     return 0;
14 }
15
16
```

2018 - 3 - d



The image shows a screenshot of a C++ program in Visual Studio. The program is named 'Source.cpp' and is located in a folder named '2018_3_d'. The code is as follows:

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int n, r, c, s;
6
7      cout << "Enter number of rows: ";
8      cin >> n;
9      for (r = 1; r <= n; r++)
10     {
11         for (s = 1; s <= n - r; s++) cout << " ";
12         for (c = 1; c <= r; c++) cout << "* ";
13         cout << endl;
14     }
15
16     return 0;
17 }
```

The program prompts the user to enter the number of rows (5) and then prints a pattern of asterisks. The pattern is as follows:

```
Enter number of rows: 5
*
* *
* * *
* * * *
* * * * *
```

The output is displayed in the Microsoft Visual Studio Debug Console. The console also shows the file path 'E:\kaisarTMP\CSE Exam Code\2018_3' and a message: 'To automatically close the console when debugging stops. Press any key to close this window.'

2018 - 7 - a

```
Source.cpp 2018_7_a (Global Scope)
4 int main() {
5
6     double Rin, Rout, Vin, Vout;
7     cout << "Inner Radius: ";
8     cin >> Rin;
9     cout << "Outer Radius: ";
10    cin >> Rout;
11    cout << "Inner Velocity: ";
12    cin >> Vin;
13
14    Vout = Vin * pow((Rin / Rout), 2);
15    cout << "Outer Velocity: "<<Vout<< " ft/sec" << endl;
16
17    return 0;
18 }
```

2018 - 7 - b

```
Source.cpp  X
2018_7_b  (Global Scope)  main()

1  #include <iostream>
2  #include <iomanip>
3  using namespace std;
4  int main() {
5
6      double r1, r2, r3, req = 0.0;
7      r1 = 1000.0;
8      r2 = 500.0;
9      r3 = 250.0;
10     req = 1 / ((1 / r1) + (1 / r2) + (1 / r3));
11     cout << endl;
12
13     cout << "The Combined Resistance " << setw(7) << setprecision(5) << setfill('0') << req << "ohms." << endl;
14
15
16     return 0;
17 }
```

2018 - 7 - c

```
Source.cpp  ×
2018_7_c  (Global Scope)

2  #include <cmath>
3  using namespace std;
4
5  int main() {
6
7      int x, n;
8      long sum = 0;
9      cout << "Enter the value of x: ";
10     cin >> x;
11     cout << "Enter the value of n: ";
12     cin >> n;
13
14     for (int i = 0; i <= n; i++) {
15         sum += pow(x, i);
16     }
17     cout << "Output of the Series is: ";
18     cout << sum;
19
20     return 0;
21 }
```