```
main.cpp
     1 #include <iostream>
    2 using namespace std;
    4 int main() {
             int x;
              cout << "Enter an integer: ";</pre>
              cin >> x;
             int result1 = x * x * x + 3 * x * x + 5 * x + 7;
double result2 = x * x * x + 3 * x * x + 5 * x + 7.2;
             cout << "x^3 + 3x^2 + 5x + 7 = " << result1 << endl;
              cout << "x^3 + 3x^2 + 5x + 7.2 = " <math><< result2 << endl;
             return 0;
   16 }
 £ $ @ `\ \
                                                                                    input
Enter an integer: 3

x^3 + 3x^2 + 5x + 7 = 76

x^3 + 3x^2 + 5x + 7.2 = 76.2
...Program finished with exit code 0
Press ENTER to exit console.
```

Figure 1: Q2

```
main.cpp
     1 #include <iostream>
     2 using namespace std;
     4 int main() {
              int x;
               cout << "Enter an integer: ";</pre>
               cin >> x;
               cout << "x = " << x << endl;
cout << "2x = " << 2 * x << endl;
cout << "x^2 = " << x * x << endl;</pre>
               return 0;
   14 }
Enter an integer: 3

x = 3

2x = 6

x^2 = 9
                                                                                                 input
...Program finished with exit code 0 Press ENTER to exit console.
```

Figure 2: Q1

```
main.cpp
    1 #include <iostream>
    2 using namespace std;
   4 int main() {
           int sum = 0;
           for (int i = 1; i <= 100; i++) {
               sum += i;
           cout << "Sum from 1 to 100 using for loop is: " << sum << endl;</pre>
           return 0;
  13
✓ , To to .%

Sum from 1 to 100 using for loop is: 5050
                                                                        input
...Program finished with exit code 0 Press ENTER to exit console.
```

Figure 3: Q3

```
main.cpp
     1 #include <iostream>
    2 using namespace std;
    4 int main() {
             int rows = 5;
             for (int i = 1; i <= rows; i++) {
   for (int j = 1; j <= i; j++) {
      cout << "*";</pre>
                   cout << endl;</pre>
              }
             return 0;
  15 }
 input
...Program finished with exit code 0 Press ENTER to exit console.
```

Figure 4: Q5

```
main.cpp
    1 #include <iostream>
    2 using namespace std;
   4 int main(){
   5 int sum = 0;
   6 int i = 1;
   8 while (i <= 100) {
9    sum += i;
  11 }
  13 cout << "Sum from 1 to 100 using while loop is: " << sum << endl;
  15 return 0;
  16 }
✓ , To to .9

Sum from 1 to 100 using while loop is: 5050
                                                                         input
...Program finished with exit code 0 Press ENTER to exit console.
```

Figure 5: Q4