```
    practice01.cpp > 分 main()

          #include <iostream>
          using namespace std;
     2
          int powSum(int n) {
     3
               if(n==0) return 0;
                return (n*n) + powSum(n-1);
     5
     6
          }
          int main() {
     8
     9
               int n;
    10
                cin >> n;
               cout << powSum(n) << endl;</pre>
   11
               return 0;
    12
   13
                                                  ∑ zsh + ∨ □ · · · | □ ×
  PROBLEMS
              OUTPUT
                         TERMINAL

    anshikathakur@Anshikas-Laptop myCproject % g++ practice01.cpp
    anshikathakur@Anshikas-Laptop myCproject % ./a.out

♦ anshikathakur@Anshikas-Laptop myCproject %
```

```
G Q7_03.cpp > 分 factorial(int)
          #include <iostream>
     2
          using namespace std;
          int factorial(int n){
                if(n==0 || n==1) return 1;
     4
                return n * factorial(n-1);
     5
     6
          int main() {
     8
     9
                int n;
   10
                cin >> n;
                cout << factorial(n) << endl;</pre>
   11
   12
                return 0;
   13
                                                  ∑ zsh + ∨ □ · □ · · · | [] ×
  PROBLEMS
              OUTPUT
                         TERMINAL

    anshikathakur@Anshikas-Laptop myCproject % g++ Q7_03.cpp
    anshikathakur@Anshikas-Laptop myCproject % ./a.out

♦ anshikathakur@Anshikas-Laptop myCproject %
```

```
G Q8_03.cpp > 分 main()
         #include <iostream>
     2
         using namespace std;
     3
          int fibonacci(int n){
               if(n==0) return 0;
     4
               if(n==1) return 1;
     5
               return fibonacci(n-1) + fibonacci(n-2);
     6
    8
          int main() {
    9
   10
               int n;
   11
               cin >> n;
               cout << fibonacci(n) << endl;</pre>
   12
   13
               return 0;
   14
                                                ∑ zsh + ∨ □ • • · · | □ ×
 PROBLEMS
              OUTPUT
                        TERMINAL
anshikathakur@Anshikas-Laptop myCproject % g++ Q8_03.cppanshikathakur@Anshikas-Laptop myCproject % ./a.out
 10
💠 anshikathakur@Anshikas-Laptop myCproject % 📕
```

```
    practice03.cpp > 
    main()

          #include <iostream>
          using namespace std;
     2
          long sumSeries(int n){
     3
                if(n==0) return 1;
                return pow(2,n) + sumSeries(n-1);
     5
     6
          int main() {
     8
     9
                int n;
   10
                cin >> n;
                cout << sumSeries(n) << endl;</pre>
   11
   12
                return 0;
   13
                                                              ∑ zsh + ∨ □ ଢ ··· | [] ×
 PROBLEMS
              OUTPUT
                         DEBUG CONSOLE
                                           TERMINAL

    anshikathakur@Anshikas-Laptop myCproject % g++ practice03.cpp
    anshikathakur@Anshikas-Laptop myCproject % ./a.out

💠 anshikathakur@Anshikas-Laptop myCproject % 📕
```

```
ractice04.cpp > ...
         #include <iostream>
        #include <algorithm>
    3
        using namespace std;
         // min and max element of an array using recursion
         int findMin(int a[], int n){
    5
              if(n==1) return a[0];
              int Min = findMin(a, n-1);
              return min(a[n-1], Min);
    9
   10
         int findMax(int a[], int n){
   11
              if(n==1) return a[0];
   12
              int Max = findMax(a, n-1);
   13
   14
              return max(a[n-1], Max);
   15
         int main() {
   16
              int arr[] = \{1,2,3,4,5,6\};
   17
              int n = sizeof(arr) / sizeof(arr[0]);
   18
   19
   20
              cout << "Minimum element: " << findMin(arr, n) << endl;</pre>
   21
              cout << "Maximum element: " << findMax(arr, n) << endl;</pre>
   22
              return 0;
   23
         }
                                                              ∑ zsh + ∨ □ · · · | [] ×
 PROBLEMS
                                                 PORTS
             OUTPUT
                      DEBUG CONSOLE
                                      TERMINAL

    anshikathakur@Anshikas-Laptop myCproject % g++ practice04.cpp
    anshikathakur@Anshikas-Laptop myCproject % ./a.out

 Minimum element: 1
Maximum element: 6
🔷 anshikathakur@Anshikas-Laptop myCproject % 📗
```

```
G practice05.cpp > ...
            #include <iostream>
     2
            #include <string>
            using namespace std;
            bool isPallindrome(string s){
                   int start = 0;
                   int end = s.length() - 1;
                  while(start < end){</pre>
                         if(s[start] != s[end]){
    10
                                return false;
    11
    12
                         start++;
    13
                         end--;
    14
                   return true;
            }
    17
            int main() {
    19
                  string str;
    20
                  cin >> str;
                   if(isPallindrome(str)){
    22
                         cout << "pallindrome\n";</pre>
    23
                   }else{
                         cout << "not pallindrome\n";</pre>
    25
    26
                  return 0;
                                                                                                           ∑ zsh + ∨ □ 🛍 ··· | [] ×
 PROBLEMS
                             DEBUG CONSOLE
                                                   TERMINAL
                                                                  PORTS
anshikathakur@Anshikas-Laptop myCproject % g++ practice05.cppanshikathakur@Anshikas-Laptop myCproject % ./a.out

    anshikathakur@Anshikas-Laptop myCproject % ./a.out madam pallindrome
    anshikathakur@Anshikas-Laptop myCproject % g++ practice05.cpp
    anshikathakur@Anshikas-Laptop myCproject % ./a.out anshika not pallindrome
    anshikathakur@Anshikas-Laptop myCproject % ■
```

