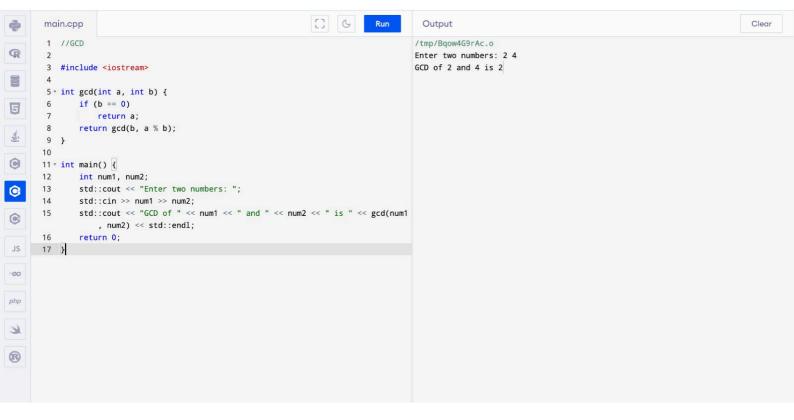
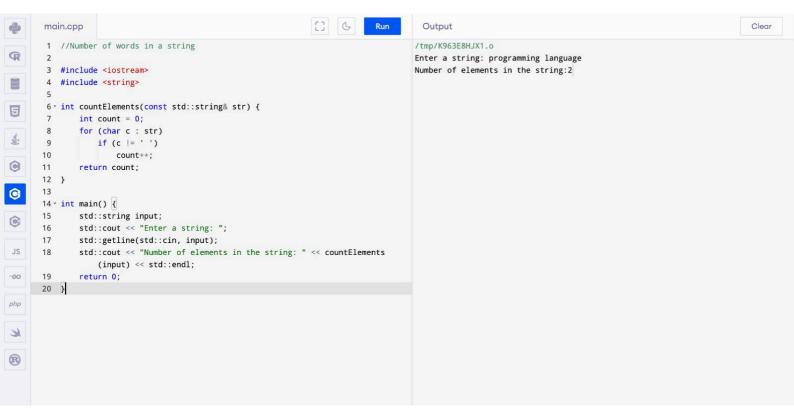
```
[] G Run
                                                                                  Output
4
       main.cpp
                                                                                                                                                   Clear
                                                                                 /tmp/Bqow4G9rAc.o
Enter a number: 5
       1 #include <iostream>
R
       3 * int factorial(int n) {
                                                                                 Factorial of 5 is 120
             if (n == 0 || n == 1)
return 1;
       6
             else
B
       7
                 return n * factorial(n - 1);
       8 }
鱼
       10 - int main() {
0
       11
            int num;
       12
              std::cout << "Enter a number: ";</pre>
©
            std::cin >> num;
       13
            std::cout << "Factorial of " << num << " is " << factorial(num) << std
       14
                ::endl;
(3)
             return 0;
      16 }
php
8
```

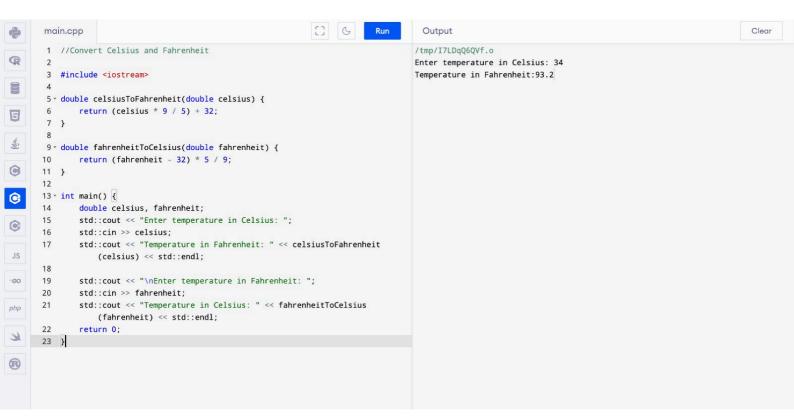
```
C Run
       main.cpp
                                                                                    Output
                                                                                                                                                       Clear
4
       1 //prime or not
                                                                                   /tmp/Bqow4G9rAc.o
R
                                                                                   Enter a number: 3
       3 #include <iostream>
                                                                                   3 is a prime number
4 #include <cmath>
       6 - bool isPrime(int n) {
9
             if (n <= 1)
               return false;
雪
             for (int i = 2; i <= std::sqrt(n); i++)
   if (n % i == 0)</pre>
       9
       10
0
       11
                   return false;
       12
              return true;
      13 }
•
       14
       15 - int main() {
0
           int num;
       16
             std::cout << "Enter a number: ";
       17
             std::cin >> num;
JS
       18
            if (isPrime(num))
       19
      20
                 std::cout << num << " is a prime number." << std::endl;
      21
                 std::cout << num << " is not a prime number." << std::endl;</pre>
      22
php
      23
              return 0;
      24 }
(B)
```

```
[] G Run
                                                                                    Output
                                                                                                                                                       Clear
       main.cpp
       1 //reverse of a string
                                                                                   /tmp/Bqow4G9rAc.o
R
                                                                                   Enter a string: good
       3 #include <iostream>
                                                                                   Reversed string:doog
4 #include <string>
       6 - std::string reverseString(std::string str) {
5
             std::string reversed = "";
              for (int i = str.length() - 1; i >= 0; i--)
       8
鱼
                reversed += str[i];
       9
              return reversed;
       10
0
       11 }
       12
•
      13 - int main() {
            std::string input;
       14
              std::cout << "Enter a string: ";</pre>
       15
(
              std::getline(std::cin, input);
       16
              std::cout << "Reversed string: " << reverseString(input) << std::endl;</pre>
      17
JS
      18
              return 0;
      19 }
~GO
php
R
(B)
```

```
[] G Run
                                                                                    Output
4
                                                                                                                                                       Clear
       1 //MAX and MIN
                                                                                   /tmp/Bqow4G9rAc.o
R
                                                                                   Minimum element: 3, Maximum element: 12
        3 #include <iostream>
5 * void minMax(int arr[], int size, int& min, int& max) {
             min = arr[0];
        6
9
              max = arr[0];
            for (int i = 1; i < size; i++) {
些
              if (arr[i] < min)</pre>
        9
                     min = arr[i];
       10
0
                 if (arr[i] > max)
       11
       12
                    max = arr[i];
©
       13
            }
       14 }
       15
0
       16 - int main() {
             int arr[] = {3, 7, 12, 9, 5};
int size = sizeof(arr) / sizeof(arr[0]);
       17
       18
             int min, max;
       19
       20
              minMax(arr, size, min, max);
       21
            std::cout << "Minimum element: " << min << ", Maximum element: " << max
                 << std::endl;
       22
              return 0;
       23 }
R
(B)
```









```
[] 6
       main.cpp
                                                                                      Output
                                                                                                                                                           Clear
        1 //string is palindrome or not
                                                                                     /tmp/I7LDqQ6QVf.o
R
                                                                                     Enter a string: abba
                                                                                     The string is a palindrome
       3 #include <iostream>
4 #include <string>
       6 - bool isPalindrome(const std::string& str) {
9
              int start = 0;
              int end = str.length() - 1;
1
       9 +
              while (start < end) {</pre>
                 if (str[start] != str[end])
       10
0
       11
                     return false;
       12
                  start++;
              end--;
•
       13
       14
              }
       15
              return true;
0
       16 }
       17
JS
       18 - int main() {
       19
              std::string input;
              std::cout << "Enter a string: ";</pre>
       20
       21
              std::getline(std::cin, input);
              if (isPalindrome(input))
       22
       23
                  std::cout << "The string is a palindrome." << std::endl;</pre>
       24
       25
                 std::cout << "The string is not a palindrome." << std::endl;</pre>
      26
               return 0;
(R)
      27 }
      28
```