## DSA0179-C++ PROGRAMMING

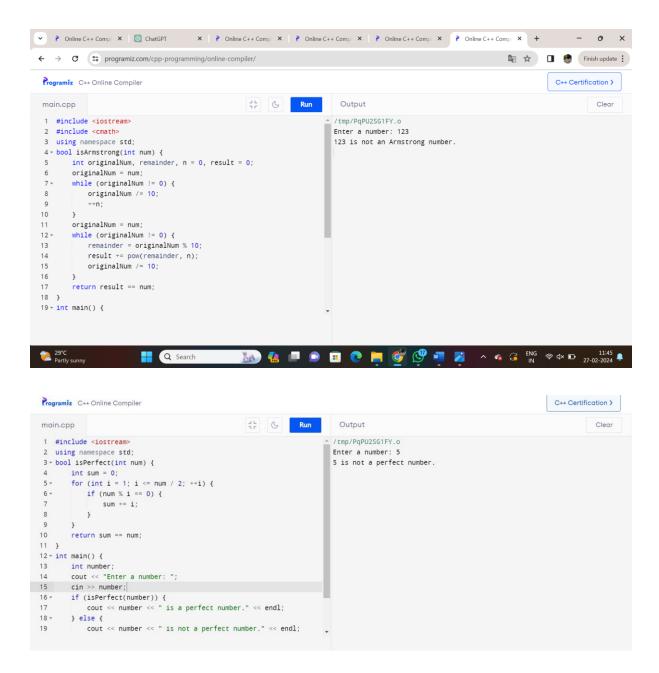
#### 1) DELETE AN ELEMENT IN ARRAY:

```
Programiz C++ Online Compiler
                                                                                                                                                      C++ Certification >
main.cpp
                                                             75 6
                                                                                       Output
                                                                                                                                                                  Clean
                                                                                      /tmp/ISTxEUtOf9.o
 1 #include <iostream>
 2 using namespace std;
                                                                                      Enter the size of the array: 4
 3 - void deleteElement(int arr[], int& size, int position) {
                                                                                     Enter elements of the array:
      if (position < 0 || position >= size) {
   cout << "Invalid position!" << endl;</pre>
                                                                                     1 2 3 4
                                                                                     Enter the position of the element to delete (0-based indexing): 2
             return:
                                                                                     Array after deletion:
                                                                                     1 2 4
        for (int i = position; i < size - 1; ++i) {
            arr[i] = arr[i + 1];
10
11
         --size:
12 }
13 - int main() {
      int size, position;
        cout << "Enter the size of the array: ";</pre>
      cin >> size;
int arr[size];
17
18     cout << "Enter elements of the array:" << endl;
19     for (int i = 0; i < size; ++i) {</pre>
```

#### 2) ELIGIBLE FOR VOTE:



3) PERFECT NUMBER & ARMSTRONG NUMBER:



### 4) FIBONACCI SERIES:

```
Programiz C++ Online Compiler
                                                                                                                                              C++ Certification >
                                                          TE G Run
                                                                                  Output
                                                                                                                                                          Clear
  main.cpp
                                                                                ▲ /tmp/v7fIHoIaa8.o
   2 using namespace std;
                                                                                  Enter the limit for Fibonacci series: 3
   3 - void fibonacci(int limit) {
         int a = 0, b = 1, c;
cout << "Fibonacci Series up to " << limit << " terms:" <</pre>
                                                                                  Fibonacci Series up to 3 terms:
             endl;
          cout << a << " " << b << " ";
          for (int i = 2; i < limit; ++i) {
           c = a + b;
cout << c << " ";
  10
             a = b;
b = c;
  11
  12
  14 - int main() {
  15
          int limit:
          cout << "Enter the limit for Fibonacci series: ";
cin >> limit;
  16
18 fibonacci(limit);
         return 0;
Waiting for secure pulpads a doubleclick net
```

### 6) PRIME OR NOT



# 7)SUM OF DIAGONALS IN MATRIX:

```
Programiz C++ Online Compiler
                                                                                                                                                                    C++ Certification >
                                                                  Run
                                                                                               Output
                                                                                                                                                                                  Clear
main.cpp
1 #include <iostream>
                                                                                              /tmp/oOykb7Q6AZ.o
 2 using namespace std;
                                                                                              Enter the size of the square matrix: 2
 3 const int MAX_SIZE = 100;
                                                                                              Enter the elements of the matrix:
 4 - void sumOfDiagonals(int matrix[][MAX_SIZE], int n) {
                                                                                              1 2
         d. sumorblagonals(int matrix()[mAx_slze), int n) {
int primaryDiagonalSum = 0, secondaryDiagonalSum = 0;
for (int i = 0; i < n; ++i) {
   primaryDiagonalSum += matrix[i][i];
   secondaryDiagonalSum += matrix[i][n - i - 1];</pre>
                                                                                              Sum of primary diagonal: 5
                                                                                              Sum of secondary diagonal: 4
10
         cout << "Sum of primary diagonal: " << primaryDiagonalSum</pre>
         << endl;
cout << "Sum of secondary diagonal: " <<</pre>
11
              secondaryDiagonalSum << endl;
12 }
13 - int main() {
14
         int n;
15
         int matrix[MAX_SIZE][MAX_SIZE];
         cout << "Enter the size of the square matrix: ";</pre>
         cin >> n;
```

### 8) EMPLOYEE PROBLEM-USING CLASS:

