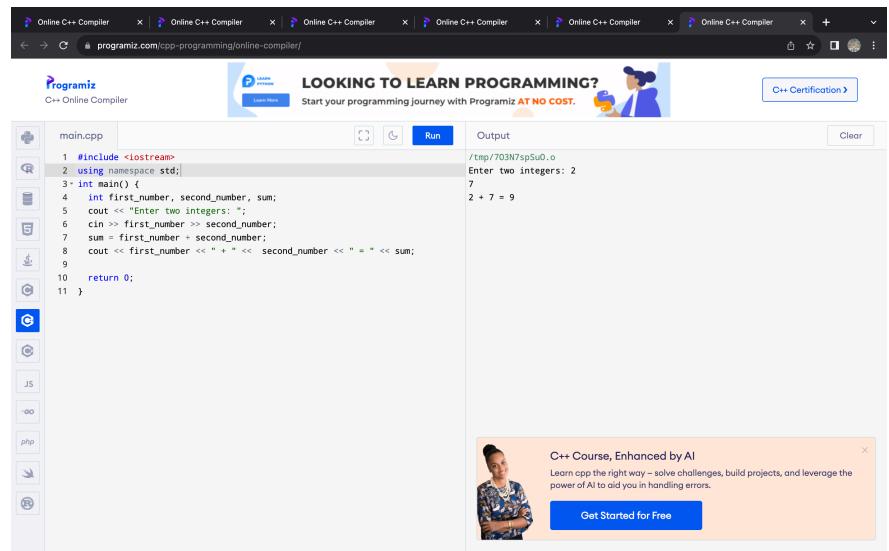


DAY 1 Programs

ADDING OF TWO NUMBERS



The screenshot shows the Programiz Online C++ Compiler interface. The code editor contains the following C++ program:

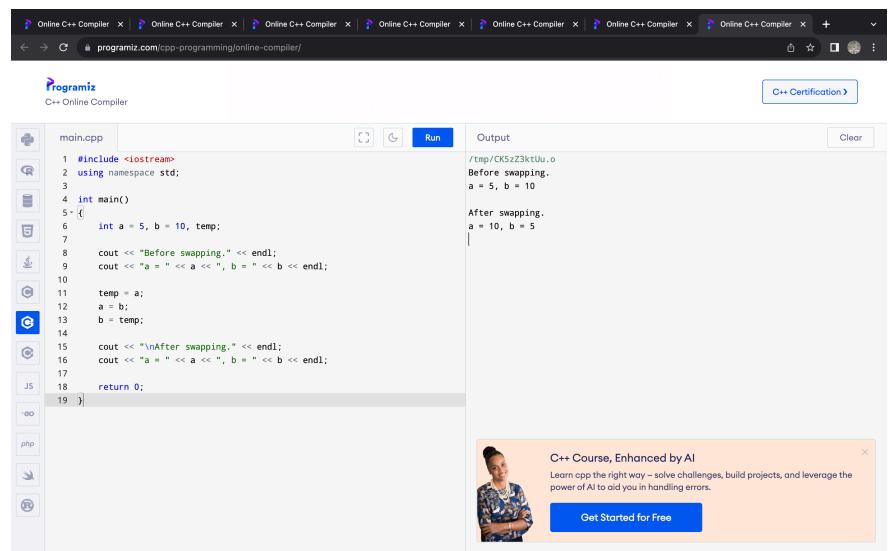
```
main.cpp
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int first_number, second_number, sum;
6     cout << "Enter two integers: ";
7     cin >> first_number >> second_number;
8     sum = first_number + second_number;
9     cout << first_number << " + " << second_number << " = " << sum;
10
11 }
```

The output window shows the result of running the program:

```
/tmp/70N7sp5u0.o
Enter two integers: 7
2 + 7 = 9
```

A sidebar on the right features a promotional banner for a C++ course enhanced by AI.

SWAPPING OF TWO NUMBERS



The screenshot shows the Programiz Online C++ Compiler interface. The code editor contains the following C++ program:

```
main.cpp
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int a = 5, b = 10, temp;
7
8     cout << "Before swapping." << endl;
9     cout << "a = " << a << ", b = " << b << endl;
10
11    temp = a;
12    a = b;
13    b = temp;
14
15    cout << "\nAfter swapping." << endl;
16    cout << "a = " << a << ", b = " << b << endl;
17
18    return 0;
19 }
```

The output window shows the result of running the program:

```
/tmp/CK5Zz3ktUu.o
Before swapping.
a = 5, b = 10
After swapping.
a = 10, b = 5
```

A sidebar on the right features a promotional banner for a C++ course enhanced by AI.

LARGEST OF TWO NUMBERS

The screenshot shows the Programiz C++ Online Compiler interface. The code in the editor is:

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int num1, num2;
7     cout << "Enter first number: ";
8     cin >> num1;
9     cout << "Enter second number: ";
10    cin >> num2;
11    if(num1>num2)
12    {
13        cout << "First number " << num1 << " is the largest";
14    }
15    else
16    {
17        cout << "Second number " << num2 << " is the largest";
18    }
19    return 0;
20 }
```

The output window shows the execution results:

```
/tmp/nBmabKaFd8.o
Enter first number:4
Enter second number:8
Second number 8 is the largest
```

A sidebar on the right features a promotional banner for a C++ course.

SUM OF N NATURAL NUMBERS

The screenshot shows the Programiz C++ Online Compiler interface. The code in the editor is:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     int n, sum = 0;
6
7     cout << "Enter a positive integer: ";
8     cin >> n;
9
10    for (int i = 1; i <= n; ++i) {
11        sum += i;
12    }
13
14    cout << "Sum = " << sum;
15    return 0;
16 }
```

The output window shows the execution results:

```
/tmp/87kz9b0125.o
Enter a positive integer: 4
Sum = 10
```

A sidebar on the right features a promotional banner for a C++ course.

FIND EVEN OR ODD

The screenshot shows the Programiz C++ Online Compiler interface. The code in the editor is:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     cout<<"enter integer";
6     cin>>a;
7     if(a%2==0)
8         cout<<a<<"is even number";
9     else
10        cout<<a<<"is odd number";
11 }
12 }
```

The output window shows the result of running the program with the input '5':

```
/tmp/0RTmzIKPb0.o
enter integer5
5 is odd number
```

A promotional banner for a C++ course is visible at the bottom right.

FIBONACCI SERIES

The screenshot shows the Programiz C++ Online Compiler interface. The code in the editor is:

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int n, t1 = 0, t2 = 1, nextTerm = 0;
7
8     cout << "Enter the number of terms: ";
9     cin >> n;
10
11    cout << "Fibonacci Series: ";
12
13    for (int i = 1; i <= n; ++i) {
14        // Prints the first two terms.
15        if(i == 1) {
16            cout << t1 << ", ";
17            continue;
18        }
19        if(i == 2) {
20            cout << t2 << ", ";
21            continue;
22        }
23        nextTerm = t1 + t2;
24        t1 = t2;
25        t2 = nextTerm;
26
27        cout << nextTerm << ", ";
28    }
29
30    return 0;
31 }
```

The output window shows the result of running the program with the input '5':

```
/tmp/AnzC0FM1x.o
Enter the number of terms: 5
Fibonacci Series: 0, 1, 1, 2, 3,
```

A promotional banner for a C++ course is visible at the bottom right.

FACTORIAL

The screenshot shows the Programiz Online C++ Compiler interface. The code editor contains the following C++ code:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int i,n;
5     int fact=1;
6     cout<<"enter num";
7     cin>>n;
8     for(i=1;i<=n;i++){
9         fact=fact*i;
10    }
11    cout<<"factorial of num is"<<fact;
12 }
```

The output window shows the result of running the program with input '4':

```
/tmp/Y0rPah3C31.o
enter num4
factorial of num is24
```

A sidebar on the right features a 'C++ Course, Enhanced by AI' section with a woman's profile picture and a 'Get Started for Free' button.

REVERSE A NUMBER

The screenshot shows the Programiz Online C++ Compiler interface. The code editor contains the following C++ code:

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int r,n,rev=0;
6     cout<<"enter num";
7     cin>>n;
8     while(n!=0){
9         r=n%10;
10        rev=rev*10+r;
11        n=n/10;
12    }
13    cout<<"rev num is"<<rev;
14 }
```

The output window shows the result of running the program with input '12345':

```
/tmp/4pRwS7tYA3.o
enter num12345
rev num is54321
```

A sidebar on the right features a 'C++ Course, Enhanced by AI' section with a woman's profile picture and a 'Get Started for Free' button.

PRIME OR NOT

The screenshot shows a web-based C++ compiler interface. The code in the editor is:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int i,n,flag=0;
5     cout<<"enter num";
6     cin>>n;
7     for(i=2;i<=n/2;i++){
8         if(n%i==0){
9             cout<<"num is prime"<<endl;
10            flag=1;
11            break;
12        }
13    }
14    if(flag==0){
15        cout<<"not prime"<<endl;
16    }
17    return 0;
18 }
```

The output window shows the result of running the program with input '13':

```
/tmp/RqfycqlxNE.o
enter num13
not prime
```

A sidebar on the right promotes a "C++ Course, Enhanced by AI".

MULTIPLICATION OF TWO NUMBERS

The screenshot shows a web-based C++ compiler interface. The code in the editor is:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int a,b,mul=0;
5     cout<<"enter a";
6     cin>>a;
7     cout<<"enter b";
8     cin>>b;
9     mul=a*b;
10    cout<<"mul of 2num"-->>mul;
11 }
```

The output window shows the result of running the program with inputs '2' and '3':

```
/tmp/g19eY8u1q6.o
enter a2
enter b3
mul of 2num6
```

A sidebar on the right promotes a "C++ Course, Enhanced by AI".