main.cpp

Run

```cpp
#include <iostream>
using namespace std;
int main()
{
    int a,b, add, sub, mult, modulo;
    float div;
    cout <<"enter numbers:";
    cin >> a;
    cin >> b;
    add=a+b;
    sub=a-b;
    mult=a*b;
    modulo=a%b;
    div=a/(float)b;
    cout<<"sum: " << add;
    cout<<"\ndifference: " << sub;
    cout<<"\nproduct:" << mult;
    cout<<"\ndivide:" << div;
    cout<<"\nmodulo:" << modulo;
    return 0;
}
```

Output

Clear

```
/tmp/xVFd8OGnlE.o
enter numbers:3 5
sum: 8
difference: -2
product:15
divide:0.6
modulo:3
```

main.cpp

Run

```cpp
#include <iostream>
using namespace std;
int main()
{
    int a;
    cout<<"enter integer:";
    cin >> a;
    if (a%2==0)
    {
       cout << a << " is even";
    }
    else
    {
       cout << a << " is odd";
    }
    return 0;
}
```

Output

Clear

```
/tmp/3wOK6Fx8OL.o
enter integer:34
34 is even
```

main.cpp

Run

```cpp
#include <iostream>
using namespace std;
int main()
{
    int a,b,c;
    float avg;
    cout << "enter first number:";
    cin >> a;
    cout << "enter second number:";
    cin >> b;
    cout << "enter third number:";
    cin >> c;
    avg=float(a+b+c)/3;
    cout << "average:" << avg;
    return 0;
}
```

Output

Clear

```
/tmp/3wOK6Fx8OL.o
enter first number:2
enter second number:3
enter third number:4
average:3
```

main.cpp

Run

```cpp
#include <iostream>
using namespace std;
int main()
{
    int a,b;
    cout<<"Enter first integer: ";
    cin >> a;
    cout << "Enter second integer: ";
    cin >> b;
    if (a==b)
    {
        cout << "Integers are Equal";
    }
    else
    {
        cout << "Integers are Not Equal";
    }
    return 0;
}
```

Output

Clear

```
/tmp/3wOK6Fx8OL.o
Enter first integer: 3
Enter second integer: 4
Integers are Not Equal
```

TextEdit

main.cpp

Run

Output

Clear

```cpp
#include <iostream>
using namespace std;
int main()
{
    float a,b, add, sub, mult, modulo, div;
    cout<<"enter numbers:";
    cin >> a;
    cin >> b;
    add=a+b;
    sub=a-b;
    mult=a*b;
    div=a/b;
    cout <<"sum: " << add;
    cout<<"\ndifference: " << sub;
    cout<<"\nproduct:" << mult;
    cout<<"\ndivide:" << div;
    cout<<"\nmodulo is not possible";
    return 0;
}
```

```
/tmp/3wOK6Fx8OL.o
enter numbers:3 6
sum: 9
difference: -3
product:18
divide:0.5
modulo is not possible
```

main.cpp

Run

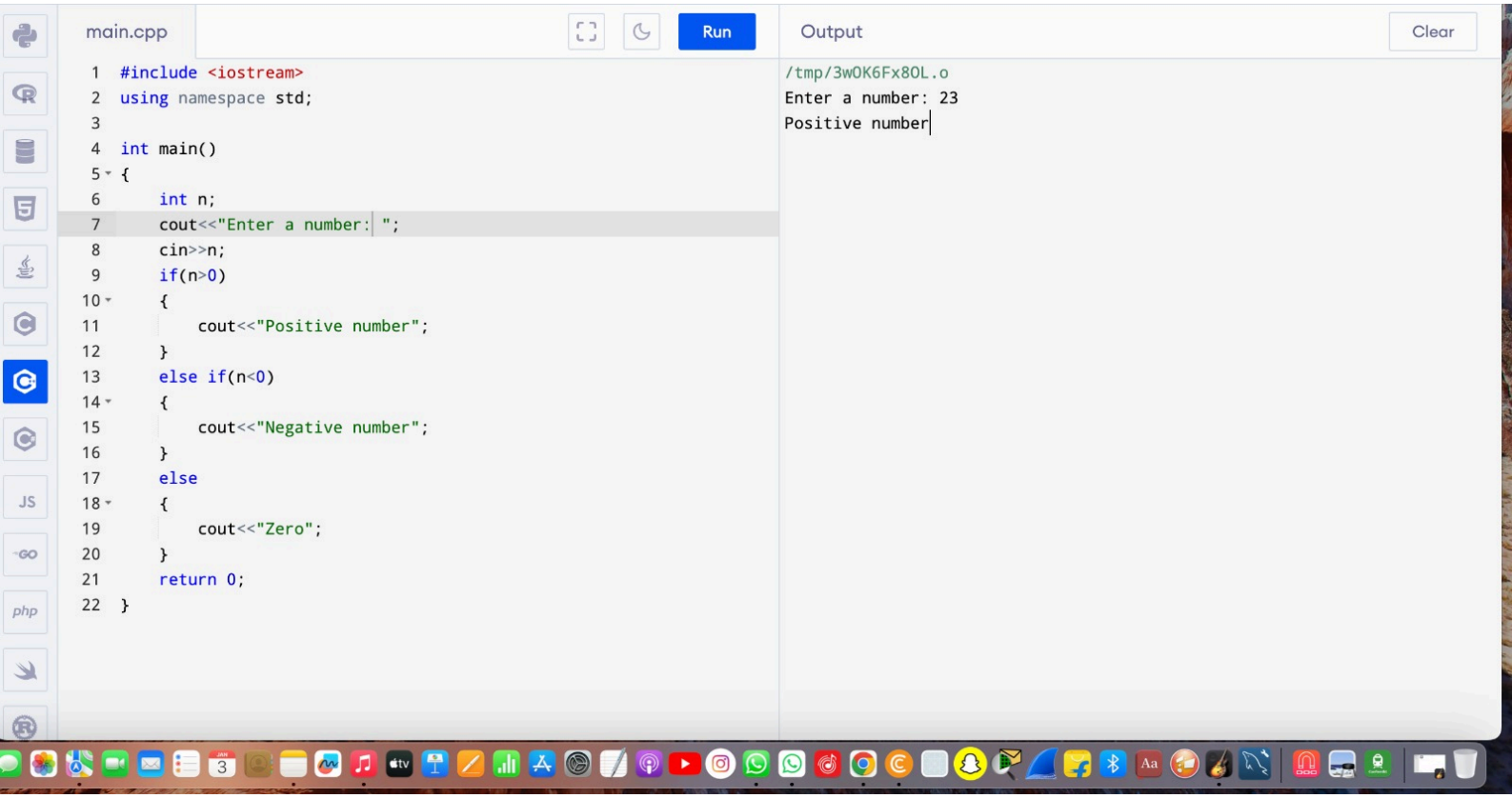
```cpp
#include <iostream>
using namespace std;
int main() {
    char c;
    bool isVowel;
    cout << "Enter an character: ";
    cin >> c;
    isVowel = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u' ||
        c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');
    if (!isalpha(c))
    {
        cout << "Error! Non-alphabetic character.";

    }
    else if (isVowel)
    {
        cout << c << " is a vowel.";
    }
    else
    {
        cout << c << " is a consonant.";
    }
    return 0;
}
```

Output

Clear

```
/tmp/3wOK6Fx8OL.o
Enter an character: ios
i is a vowel.
```


main.cpp
Run
Output
Clear
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6 int n;
7 cout<<"Enter a number: ";
8 cin>>n;
9 if(n>0)
10 {
11 cout<<"Positive number";
12 }
13 else if(n<0)
14 {
15 cout<<"Negative number";
16 }
17 else
18 {
19 cout<<"Zero";
20 }
21 return 0;
22 }
/tmp/3wOK6Fx8OL.o
Enter a number: 23
Positive number

main.cpp

Run

```cpp
#include <iostream>
using namespace std;

int main()
{
    int num1, num2;
    cout<<"Enter first number:";
    cin>>num1;
    cout<<"Enter second number:";
    cin>>num2;
    if(num1>num2)
    {
    cout<<"First number "<<num1<<" is the largest";
    }
    else
    {
    cout<<"Second number "<<num2<<" is the largest";
    }
    return 0;
}
```

Output

Clear

```
/tmp/3wOK6Fx8OL.o
Enter first number:34
Enter second number:56
Second number 56 is the largest
```

main.cpp

Run

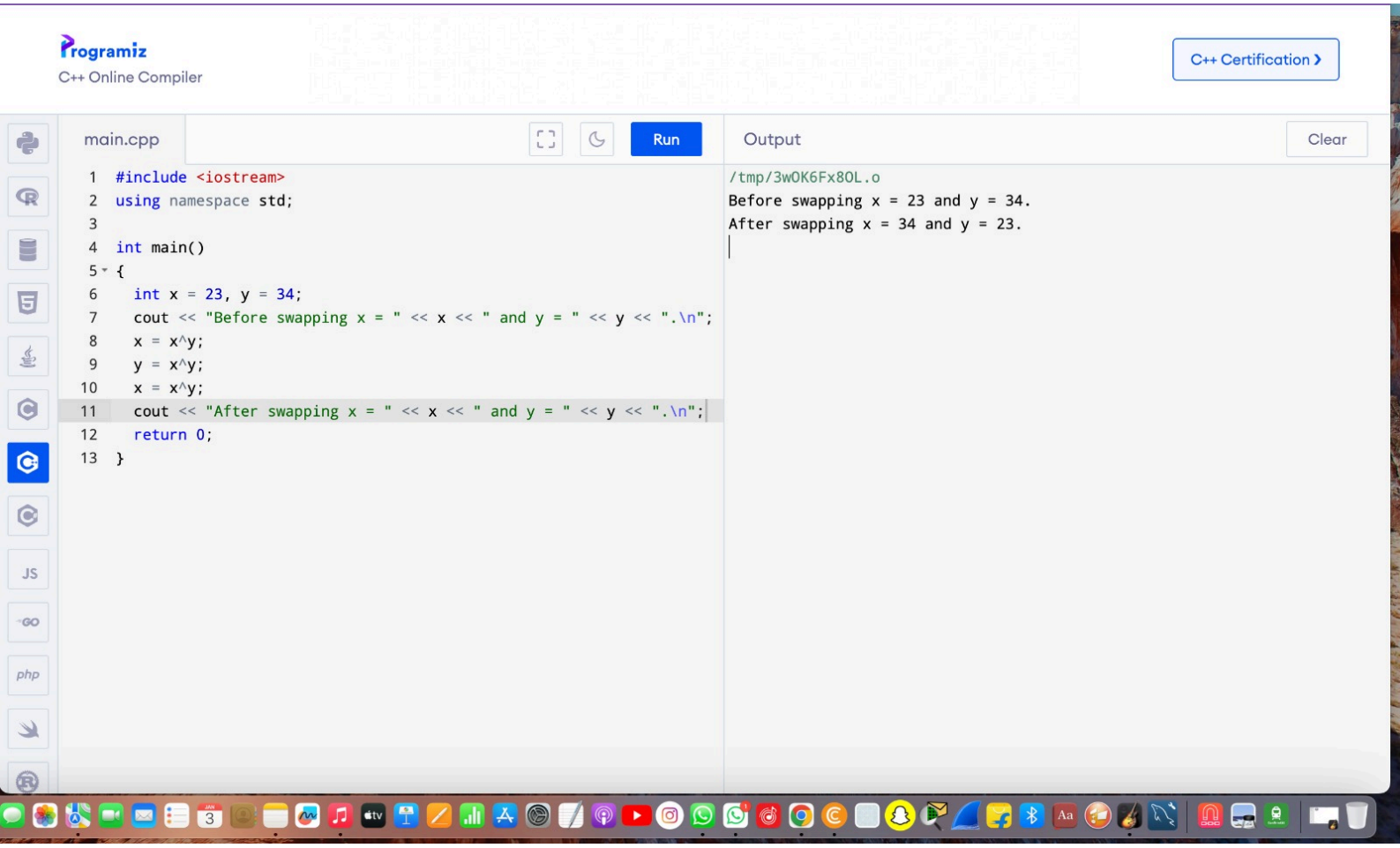
Output

Clear

```cpp
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
    cout << "Floor of 2.3 is : " << floor(2.3) << endl;
    cout << "Floor of -2.3 is : " << floor(-2.3) << endl;
    return 0;
}

```

```
/tmp/3wOK6Fx8OL.o
Floor of 2.3 is : 2
Floor of -2.3 is : -3
```


Programiz
C++ Online Compiler
C++ Certification ›
main.cpp
Run
Output
Clear
#include <iostream>
using namespace std;
int main()
{
int x = 23, y = 34;
cout << "Before swapping x = " << x << " and y = " << y << ".\n";
x = x^y;
y = x^y;
x = x^y;
cout << "After swapping x = " << x << " and y = " << y << ".\n";
return 0;
}
/tmp/3wOK6Fx8OL.o
Before swapping x = 23 and y = 34.
After swapping x = 34 and y = 23.

main.cpp

Run

Output

Clear

```cpp
#include <iostream>
using namespace std;

int main()
{
    int n1 = 5, n2 = 10, max;
    max = (n1 > n2) ? n1 : n2;
    cout << "Largest number between "
        << n1 << " and " << n2
        << " is " << max << ".";
    return 0;
}
```

```
/tmp/3wOK6Fx8OL.o
Largest number between 5 and 10 is 10.
```

main.cpp

Run

```cpp
#include <iostream>
using namespace std;
int main()
{
    int n1,n2;
    cout << "Enter first number:";
    cin >> n1;
    cout << "Enter second number:";
    cin >> n2;
    string result = (n1 == n2) ? "Numbers are equal" : "Numbers are
        not equal";
    cout << result;
    return 0;
}
```

Output

Clear

```
/tmp/3wOK6Fx8OL.o
Enter first number:34
Enter second number:56
Numbers are not equal
```

TV

main.cpp

Run

```cpp
#include <iostream>
using namespace std;
int main()
{
    int num;
    cout << "Enter an number:";
    cin >> num;
    string result = (num%3==0) ? "Number is divisible by 3." : "Number is
        not divisible by 3.";
    cout << result;
    return 0;
}
```

Output

Clear

```
/tmp/3wOK6Fx8OL.o
Enter an number:45
Number is divisible by 3.
```

main.cpp

Run

Output

Clear

```cpp
#include <iostream>
using namespace std;
int main()
{
    for(int i=1;i<=10;i++)
    {
        cout << i << " ";
    }
    return 0;
}
```

```
/tmp/3wOK6Fx8OL.o
1 2 3 4 5 6 7 8 9 10
```

main.cpp

Run

Output

Clear

```cpp
#include <iostream>
using namespace std;
int main()
{
    int num;
    int factorial=1;
    cout<<"Enter a number:";
    cin >> num;
    for(int i=1;i<=num;i++)
    {
        factorial*=i;
    }
    cout << "Factorial of " << num << " is " << factorial;
    return 0;
}
```

```
/tmp/3wOK6Fx8OL.o
Enter a number:5
Factorial of 5 is 120
```