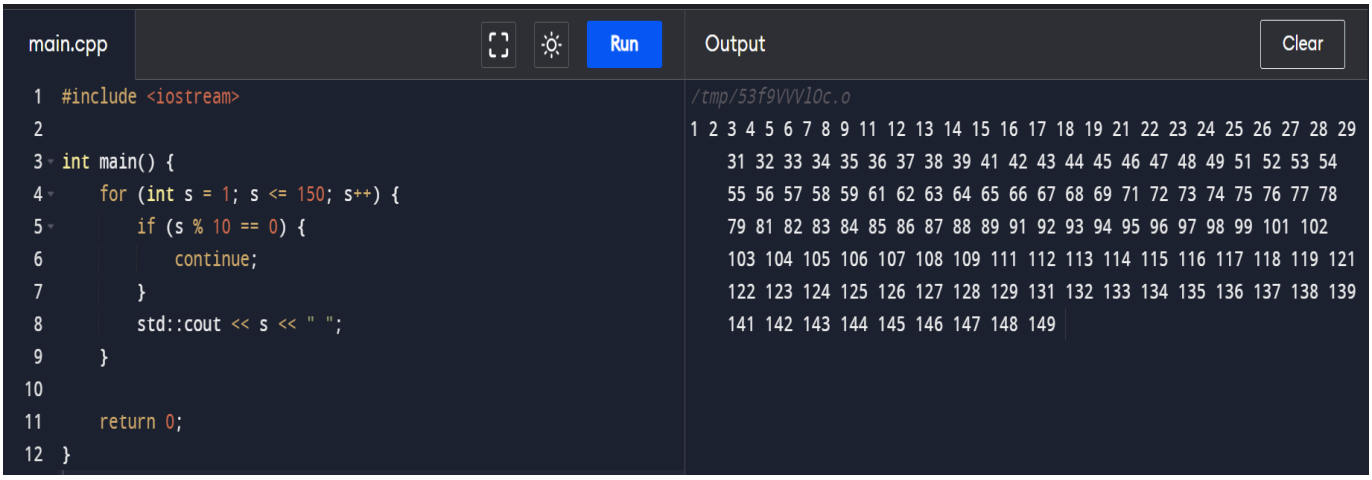
FOP Home Tasks (Lab Manual 4)

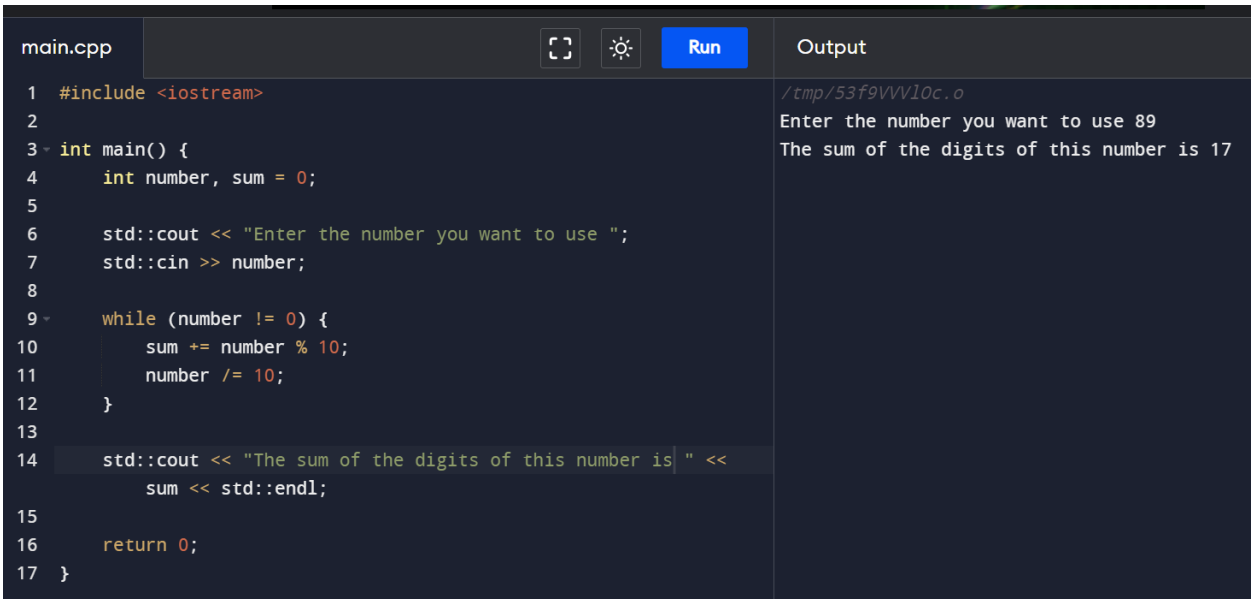
Task 1:

```
#include <iostream>


int main() {
   for (int s = 1; s <= 150; s++) {
      if (s % 10 == 0) {
         continue;
      }
      std::cout << s << " ";
   }


   return 0;
}
```



Task 2:

```
#include <iostream>

int main() {
   int number, sum = 0;

   std::cout << "Enter the number you want to use ";
   std::cin >> number;

   while (number != 0) {
      sum += number % 10;
      number /= 10;
   }

   std::cout << "The sum of the digits of this number is " << sum << std::endl;

   return 0;
}
```



Task 3:

```
#include <iostream>


int main() {
   int number;
   bool isPrime = true;
   std::cout << "Enter the number you want to use: ";
   std::cin >> number;
   if (number <= 1) {
      isPrime = false;
   }
   else {
      for (int s = 2; s <= number / 2; s++) {
         if (number % s == 0) {
            isPrime = false;
            break;
         }
      }
   }


   if (isPrime) {
      std::cout << "This is a prime number" << std::endl;
   }
   else {
      std::cout << "This is not a prime number." << std::endl;
   }


   return 0;
}
```

main.cpp Run Output

```cpp
#include <iostream>

int main() {
    int number;
    bool isPrime = true;

    std::cout << "Enter the number you want to use: ";
    std::cin >> number;

    if (number <= 1) {
        isPrime = false;
    }
    else {
        for (int s = 2; s <= number / 2; s++) {
            if (number % s == 0) {
                isPrime = false;
                break;
            }
        }
```

```
/tmp/53f9VVVlOc.o
Enter the number you want to use: 89
This is a prime number
```