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;
}</pre>
```

```
[] 🔅
                                                                                                                                    Clear
main.cpp
                                                                       Output
                                                                      1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 21 22 23 24 25 26 27 28 29
                                                                         31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 51 52 53 54
3 int main() {
                                                                         55 56 57 58 59 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 77 78
        for (int s = 1; s <= 150; s++) {
           if (s % 10 == 0) {
                                                                          79 81 82 83 84 85 86 87 88 89 91 92 93 94 95 96 97 98 99 101 102
                                                                          103 104 105 106 107 108 109 111 112 113 114 115 116 117 118 119 121
                                                                         122 123 124 125 126 127 128 129 131 132 133 134 135 136 137 138 139
           std::cout << s << " ";
                                                                         141 142 143 144 145 146 147 148 149
10
12 }
```

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;
}</pre>
```

```
[] - ;
main.cpp
                                                               Run
                                                                          Output
                                                                        Enter the number you want to use 89
3 int main() {
                                                                        The sum of the digits of this number is 17
       int number, sum = 0;
       std::cout << "Enter the number you want to use ";</pre>
       std::cin >> number;
8
9 .
       while (number != 0) {
10
           sum += number % 10;
           number /= 10;
12
       std::cout << "The sum of the digits of this number is " <<</pre>
          sum << std::endl;</pre>
```

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
 1 #include <iostream>
                                                                       Enter the number you want to use: 89
3 int main() {
                                                                      This is a prime number
       int number;
       bool isPrime = true;
 6
       std::cout << "Enter the number you want to use: ";</pre>
       std::cin >> number;
10 -
       if (number <= 1) {</pre>
           isPrime = false;
       else {
            for (int s = 2; s <= number / 2; s++) {
15 -
              if (number % s == 0) {
                   isPrime = false;
19
```