

## Task 1: C++ program to find the sum of first 10 natural numbers

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    int sum = 0;
```

```
    int number;
```

```
    cout << "Enter the 10 natural numbers:" << endl;
```

```
    for (int s = 0; s < 10; s++) {
```

```
        cin >> number;
```

```
        sum += number;
```

```
    }
```

```
    cout << "The sum of the 10 natural numbers is " << sum << endl;
```

```
    return 0;
```

```
}
```

### Output

```
/tmp/AVADrG9SXA.o
```

```
Enter the 10 natural numbers:
```

```
110
```

```
14
```

```
13
```

```
17
```

```
29
```

```
31
```

```
27
```

```
76
```

```
78
```

```
79
```

```
The sum of the 10 natural numbers is 474
```

## Task 2: C++ program to print the table of any number

```
#include <iostream>
```

```
int main() {
```

```
    int number;
```

```
    std::cout << "Enter a number: ";
```

```
    std::cin >> number;
```

```
    for (int s = 1; s <= 10; s++) {
```

```
        int result = number * s;
```

```
        std::cout << number << " x " << s << " = " << result << std::endl;
```

```
    }
```

```
    return 0;
```

```
}
```

### Output

```
/tmp/kprKUK5rKu.o
```

```
Enter a number: 6
```

```
6 x 1 = 6
```

```
6 x 2 = 12
```

```
6 x 3 = 18
```

```
6 x 4 = 24
```

```
6 x 5 = 30
```

```
6 x 6 = 36
```

```
6 x 7 = 42
```

```
6 x 8 = 48
```

```
6 x 9 = 54
```

```
6 x 10 = 60
```

## Task 3:

```
#include <iostream>
```

```
int main() {
```

```
    int number;
```

```
    int factorial = 1;
```

```
    std::cout << "Enter a number: ";
```

```
    std::cin >> number;
```

```
    for (int s = 1; s <= number; s++) {
```

```
        factorial *= s;
```

```
    }
```

```
    std::cout << "The factorial of " << number << " is " << factorial << std::endl;
```

```
    return 0;
```

```
}
```

### Output

```
/tmp/17rhxNsSp1.o
```

```
Enter a number: 8
```

```
The factorial of 8 is 40320
```

## Task 4:

```
#include <iostream>
```

```
int main() {
```

```
    int limit;
```

```
    std::cout << "Enter the limit till where you want the fibonacci sequence to be: ";
```

```
    std::cin >> limit;
```

```
    int first = 0;
```

```
    int second = 1;
```

```
    std::cout << "Fibonacci sequence up to " << limit << " is ";
```

```
    std::cout << first << " " << second << " ";
```

```
    while (first + second <= limit) {
```

```
        int next = first + second;
```

```
        std::cout << next << " ";
```

```
        first = second;
```

```
        second = next;
```

```
    }
```

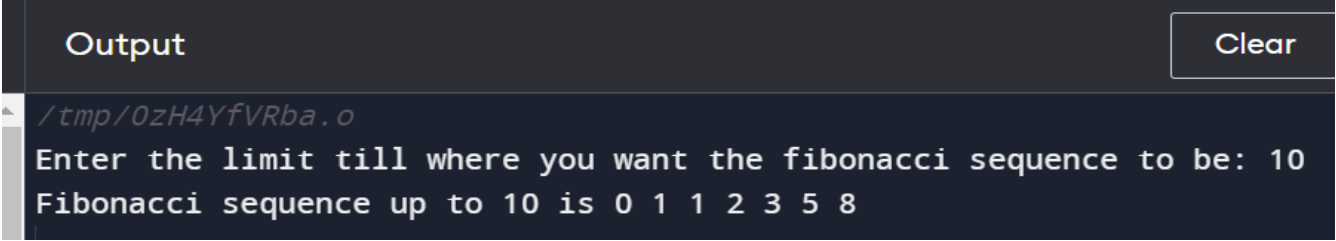
```
    std::cout << std::endl;
```

```
    return 0;
```

```
}
```

## Output

Clear

A terminal window with a dark background. The title bar is dark grey with the word 'Output' in white. On the right side of the title bar is a button labeled 'Clear'. The terminal content shows a prompt character followed by a file path, then a user input, and finally the program's output.

```
/tmp/0zH4YfVRba.o  
Enter the limit till where you want the fibonacci sequence to be: 10  
Fibonacci sequence up to 10 is 0 1 1 2 3 5 8
```