Find the mistake:

There are a couple of mistakes. The first and by far the most influential is the location of myFunction. The method myFunction cannot be defined after it is called. In order to have the code properly run the function has to be defined before integer main. Secondly, the variable p is defined as an integer when the method myFunction returns type double. Proper coding techniques would advise to declare p as a double when passing the allocated memory a double.

Explain the functionality of the code and its purpose:

The functionality of the code is quite simple. The author merely created his/her own method that returns a type double. The cout command is there for checking the value stored in variable p displayed in the output console.

In more detail, the input argument for myFunction is an integer that decides the duration of the loop. The looping condition variable k will start off at a value of zero and increase by an increment of 1 each time the code is executed inside the loop. Once the variable k is greater than myFunction’s input argument, the loop will halt its operation. Inside the loop, the variable t is equal to sum of i and j. The next line of code has i equal to the value of j therefore having i increase each iteration, and finally the value of j is equal to t.

This is also known as the Fibonacci sequence. In conclusion myFunction should be renamed to getFibonacciNum because the function will return the Fibonacci number at the placeholder entered into the argument.

Find the right value that is stored in p:

The correct value stored in p is 144.