14 points in total - Minimum to pass 8, according to 5 dimensions:

1) Functionality (Coverage of the requirements)

A: all functions implemented
B: (-1 point) if a minor functional specification or requirement is not implemented or not correctly implemented (logical errors)
C: (-2 points) if 2 functions or requirements are not implemented or not correctly implemented
D: (-3 points) if 3 functions or requirements are not implemented or not correctly implemented
E: (-4 points) if 4 functions or requirements are not implemented or not correctly implemented
F: if many functions or requirements are not implemented and the project is very much smaller than the requested one

2) GUI usability

A: if the GUI is well designed
B: (-1 point) if there are some small issues, such as labels that cannot be read easily or strange names.
C: (-2 points) When there are small issues and it is not immediate to understand how a function can be executed through the GUI.
D: (-3 points) If there are more severe problems, such as windows that are popping up without content of labels that are not shown
Fail: severe problems such as the GUI blocks or you cannot go back to the beginning of the interaction state

3) Errors and exceptions

A: if no run time errors or exceptions
B: (-1 point) If you got one or more run time error or exception but the application is still running.
C: (-2 points) If many errors or exceptions are raised.
Fail: There are many exceptions and the application cannot be used.

4) Code structure

A if the code is well written and well structured (e.g., a reasonable number of classes is used and the naming conventions are applied)
B (-1 point) if the student has not created a reasonable set of classes or the code is messy with strange names and unclear method calls

5) Fix to Start:

Fail: If the application does not start or some necessary files are not found.

In addition to the points from the project, the students may get up to 3 points from the lab assignments (explained in the lab 1) up to 14 points.

Formula for the project evaluation:
Project mark = 14 - negative points
Final mark = min(Project mark + lab points, 14)

Example:
A student gets the following scores:
Functionality: B (-1) Standard deviation was not calculated.
User Interface: B (-1) The GUI for entering the replies is messy.
Exception: C (-2) many errors or exceptions are raised.
Quality of the Code: A

14 - 4 = 10
Final mark: 10 + 1 from lab assignment = 11

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Student: 16847
Functionality: A
User Interface: A
Exception: No exception
Quality of the Code: A

14 - 0 = 14

Final mark: 14 + 3 from lab assignment = 14

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Student: 15542

Functionality: C In the GCD computation I entered 2 numbers but the app notify the user that the input is not a number (-1). The app does not show the file with the log of the function calls when the corresponding button is pressed (-1).
User Interface: B The user interface is opening a sequence of dialogues to manage the request of the user. It would be better to manage the interaction in a single window and use dialogues only for confirmation, error messages. (-1)
Exception: No exceptions
Quality of the Code: A

14 - 3 = 11

Final mark: 11 + 3 from lab assignment = 14

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Student: 16842

Functionality: C The input for the computation of GCD should be two integers, but it runs only (erroneously) when one integer is given. In fact there is another function, which is called Euclid Algorithm that works correctly (-1). The code displayed for "Euclid Algorithm" is not correct (-1).
User Interface: A
Exception: No Exceptions
Quality of the Code: A

14 - 2 = 12

Final mark: 12 + 2.7 from lab assignment = 14

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Student: 14801

Functionality: B The result of Eratosthenes algorithm is wrong (for instance with input 6, the results is 2 3 5 6) (-1).
User Interface: B After one clicks on the button to show the log of the function calls the text area that shows the log remains open and it is not possible to close it (or I do not see the button to close it) (-1).
Exception: No exceptions
Quality of the Code: A

14 - 2 = 12

Final mark: 12 + 0 from lab assignment = 12

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Student: 17109

Functionality: C When the app is requested to compute the fibonacci sequence is actually computing only the fibonacci number \( f(n) \) and not \( f(0), f(1), ..., f(n) \) (-1). The greatest common divisor function is not reading the input given (an error message says that the input was wrong even if the input was correct) (-1).
User Interface: A
Exception: No exceptions
Quality of the Code: A

14 - 2 = 12

Final mark: 12 + 3 from lab assignment = 14

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Student: 10111511
Functionality: C The log of the function calls is not shown in the text area. (-1) The fibonacci sequence function is actually computing only the fibonacci function (-1).
User Interface: C The GUI is a bit strange: the same functions are repeated to compute them and to show their code (-1). If you do not clear the input and the output, when you enter a new input the app is not replacing the old output with a new one, so you get a messy result (-1).
Exception: No exceptions
Quality of the Code: B Code is containing only 2 classes, not enough for this project. (-1)

14 - 5 = 9

Final mark: 9 + 2.4 from lab assignment = 11

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Student: 17112

Functionality: A
User Interface: B The labels on the two buttons in the main GUI are not visible (-1).
Exception: No Exceptions
Quality of the Code: A

14 - 1 = 13

Final mark: 13 + 3 from lab assignment = 14

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Student: 17107

Functionality: A
User Interface: A
Exception: No exception
Quality of the Code: A

14 - 0 = 14

Final mark: 14 + 2.7 from lab assignment = 14

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Student: 16840

Functionality: A
User Interface: A
Exception: No exception
Quality of the Code: A

14 - 0 = 14

Final mark: 14 + 3 from lab assignment = 14

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Student: 17129

Functionality: A
User Interface: A
Exception: No exception
Quality of the Code: A

14 - 0 = 14

Final mark: 14 + 3 from lab assignment = 14

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Student: 17113

Functionality: F - When starting the program only an empty window is shown.

FAILED
0/10 assignments
Student: 16851
Functionality: A
User Interface: A
Exception: No exception
Quality of the Code: A
14 - 0 = 14
Final mark: 14 + 2.7 from lab assignment = 14

Student: 17144
Functionality: B: The calculation of sigma(0,14) is not possible, because the program asks to enter a number x greater than 0 (-1).
User Interface: A
Exception: No exception
Quality of the Code: A
14 - 1 = 13
Final mark: 13 + 2.7 from lab assignment = 14

Student: 17136
Functionality: B: The log file was not created (-1).
User Interface: A
Exception: B: The creation of the log file generates an exception (-1).
Quality of the Code: A
14 - 2 = 12
Final mark: 12 + 0.3 from lab assignment = 12

Student: 17143
Functionality: C The fibonacci sequence function is actually computing only the fibonacci function (-1). Sigma function is missing (-1).
User Interface: A
Exception: No exception
Quality of the Code: A
14 - 2 = 12
Final mark: 12 + 3 from lab assignment = 14

Student: 17130
Functionality: C The fibonacci sequence function is actually computing only the fibonacci function (-1). Sieve of Eratosthenes is computed incorrectly: I entered 11 and the printed results [2, 3, 5, 7] (-1).
User Interface: A
Exception: No exception
Quality of the Code: A
14 - 2 = 12
Final mark: 12 + 2.7 from lab assignment = 14
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Student: 10111550
Functionality: B The fibonacci sequence function is actually computing only the fibonacci function (-1).
User Interface: A
Exception: No exception
Quality of the Code: A

14 - 3 = 11

Final mark: 11 + 2.7 from lab assignment = 14
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Student: 17116
Functionality: B Sigma function does not work properly: when I enter 0 and 14 it says "you have to enter valid parameter, try again" (-1).
User Interface: A
Exception: No exception
Quality of the Code: A

14 - 1 = 13

Final mark: 13 + 3 from lab assignment = 14
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Student: 17127
Functionality: B Main window menu (with Exit and About items) is missing. Instead, there are 2 buttons for Exit and About (-1).
User Interface: A
Exception: No exception
Quality of the Code: B There is a class called CalculatorPanel with 769 lines of code (-1).

14 - 2 = 12

Final mark: 12 + 3 from lab assignment = 14
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Student: 17138
Functionality: A
User Interface: A
Exception: No exception
Quality of the Code: A

14 - 0 = 14

Final mark: 14 + 3 from lab assignment = 14
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Student: 17117
Functionality: B The fibonacci sequence function is actually computing only the fibonacci function (-1).
User Interface: A
Exception: No exception
Quality of the Code: B There is a class called GraphicInterface with 690 lines of code (-1).

14 - 2 = 12

Final mark: 12 + 3 from lab assignment = 14

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Student: 17141

Functionality: B Fibonacci sequence function is not working correctly. I entered 10 and it returned "0, 1, 1, 2, 3, 5, 8, 13, 21, 34." (-1).
User Interface: B When I run the app, About and Exit menu items are not visible. Only after choosing a function, they become visible (-1). There is a Menu called Window. But it is not clear what it does.
Exception: No exception
Quality of the Code: B There are 6 classes with "public static void main()" method (-1).

14 - 3 = 11

Final mark: 11 + 2.7 from lab assignment = 14

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Student: 17120

Functionality: C The result of Eratosthenes algorithm is wrong (for instance with input 8, the results is 2 3 5 6 8) (-1). The computation of the fibonacci sequence returns only the fibonacci number (f(0) and not f(0), f(1), ..., f(n)) (-1). The program, in order to compute the number of prime numbers, calls the method that implements the sieve of Eratosthenes and therefore outputs the wrong result (for instance with input 8, the result is 5).
User Interface: A Well designed GUI
Exception: A No exceptions.
Quality of the code: A The code is very well structured. All the program functionalities are well decoupled and logically organised into packages.

14 - 2 = 12
Final mark: 12 + 2.1 from lab assignment = 14

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Student: 16849

Functionality: F When the program is asked to compute the sieve of Eratosthenes only the last number of the sequence is shown (for instance with input 4, the result is 3) (-1). The computation of the fibonacci sequence f(n), where n is a positive integer, returns the truncated sequence at the value that is lower or equal than n (not f(0), f(1), ..., f(n)) (-1). The result of the computation of the binomial coefficient is not the expected (for instance with input 10 and 2, returns 1 instead of 45) (-1). The computation of the number of prime numbers returns a result that exceed of 1 unit the expected value (with input 4, returns 3) (-1). When the program is asked to perform the computation described for "Function 7" the result is wrong and moreover when the input is inserted (for instance 0 in the first input field and 14 in the second) a warn message saying that x should be greater than 1 and n greater than 0 is shown. In reality, x should be x>=0 and n>1) (-1).
The file log is shown as a long string and the main window menu is not implemented. There are two buttons for Exit and About.

User Interface: C it is not immediate to understand how a function can be executed through the GUI. The presence of two editable input fields for all the functions is confusing.
Exception: B incorrect input are not always handled.
Quality of the code: not evaluated

FAIL
Final mark: FAIL + 2.4 from lab assignment = FAIL

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Student: 17140
Functionality: C The result of Eratosthenes algorithm is wrong (for instance with input 8, the results is 2 3 5 6 8) (-1). The result of the computation of the number of prime numbers smaller or equal than the input is wrong (for instance with input 10, the result is the sequence 2 3 5 7 instead of 4) (-1).

User Interface: B The labels on the two textfield in the main GUI are not visible (-1).

Exception: A No exceptions

Quality of the code: A

14 - 3 = 11
Final mark: 11 + 3 from lab assignment = 14

Student: 16476

Functionality: The computation of the fibonacci sequence returns only the fibonacci number (f(n) and not f(0), f(1), ..., f(n)) (-1).

User Interface: A

Exception: No Exceptions

Quality of the code: A

14 - 1 = 13
Final mark: 13 + 2.7 from lab assignment = 14

Student: 17110

Functionality: A

User Interface: A

Exception: No exceptions

Quality of the code: A

14 - 0 = 14
Final mark: 14 + 3 from lab assignment = 14

Student: 17145

Functionality: B The computation of the fibonacci sequence returns only the fibonacci number (f(n) and not f(0), f(1), ..., f(n)) (-1).

User Interface: B The UI hides the calculate button when one wants to perform the calculation of Function 7 and the Euclid algorithm (-1).

Exception: No exceptions

Quality of the code: A

14 - 2 = 12
Final mark: 12 + 2.7 from lab assignment = 14

Student: 17126

Functionality: B The computation of the fibonacci sequence returns only the fibonacci number (f(n) and not f(0), f(1), ..., f(n)) (-1).

User Interface: A The GUI presents two editable input fields for all the possible functions that can be computed.

Exception: No exceptions

Quality of the code: A
14 - 1 = 13
Final mark: 13 + 3 from lab assignment = 14