Code quality %

Before the module   After the implementation of the module

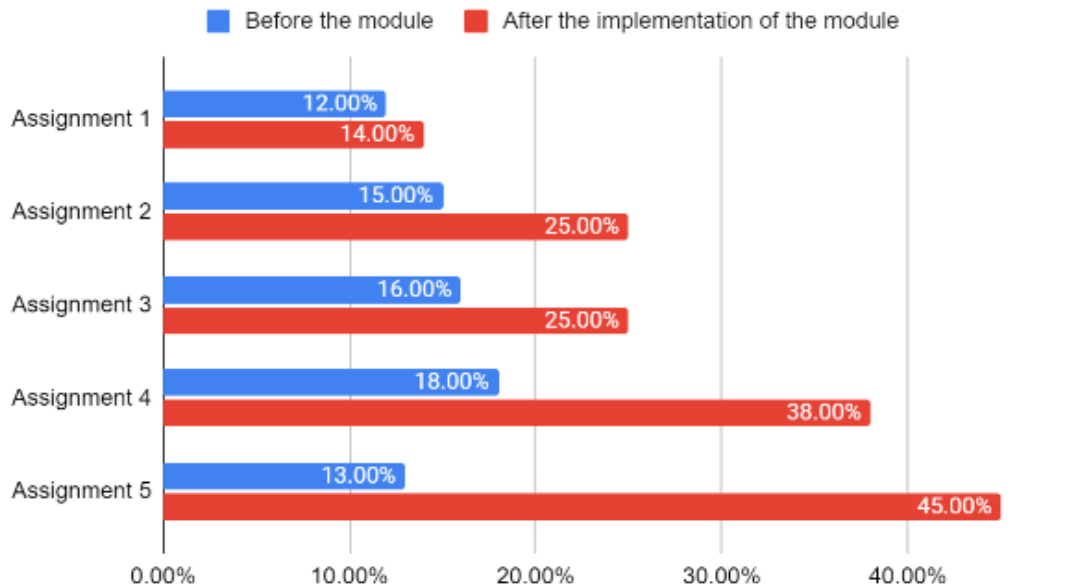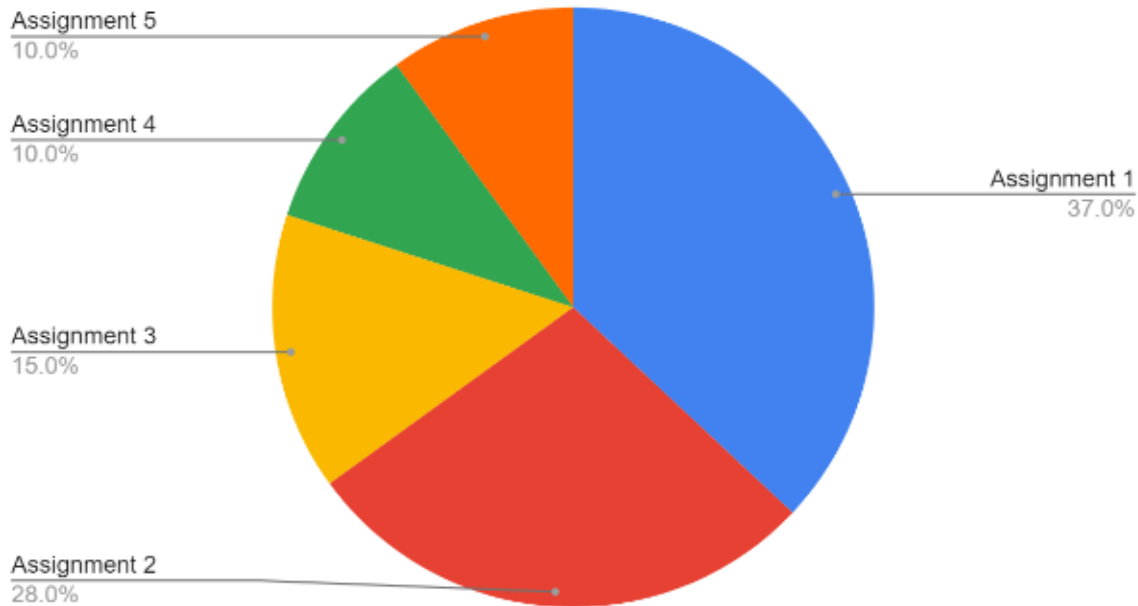| Assignment	Before the module	After the implementation of the module
Assignment 1	12.00%	14.00%
Assignment 2	15.00%	25.00%
Assignment 3	16.00%	25.00%
Assignment 4	18.00%	38.00%
Assignment 5	13.00%	45.00%

Picture 1 Description:

In the bar chart, you can see the comparison of students' code quality before and after the module implementation. The module's impact is evident across five assignments. For assignment 1 there is a small increase by 2%, which can be explained by the fact that students have not yet used the module's capabilities. In Assignment 2, the quality improvement was more pronounced, with a significant rise from 15% to 25%. Assignments 3 and 4 also saw a substantial pickup in quality, both increasing by 9 percentage, respectively. The most dramatic improvement is observed in Assignment 5, where code quality skyrocketed from 13% to an impressive 45%, indicating a highly effective intervention by the module.

Code plagiarism %

Assignment 5
10.0%

Assignment 4
10.0%

Assignment 3
15.0%

Assignment 2
28.0%

Assignment 1
37.0%

Picture 2 Description:

The pie chart illustrates the distribution of code plagiarism percentages across the same five assignments after the hints' module was introduced. It is clear that Assignment 1 had the largest proportion of plagiarism at 37%, making it the most common assignment where students duplicated code. Assignment 2 follows with 28% of the total plagiarism, while Assignment 3 accounts for 15%. Assignments 4 and 5 each comprise a smaller segment of 10%, suggesting that these assignments were less prone to plagiarism incidents. The pie chart indicates that while plagiarism was present, it was not evenly distributed across assignments, with a tendency for certain tasks to be more susceptible to copied code.