

Problem Set 1 Python and Latex Practice

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1 Introduction

This report covers the solutions to the Python tasks and the associated mathematical explanations.

2 Python Code

Below is the Python code for the assignment:

```
[language=Python] def calculate_area(width, height) : return width*height print(calculate_area(5, 10))
```

3 Mathematical Explanation

The formula for calculating the area of a rectangle is given by:

$$A = width \times height$$

where A is the area, and the width and height are the dimensions of the rectangle.

4 Conclusion

This assignment helped me practice basic Python and LaTeX concepts. Some major advantages of using these concepts together are 1) The minimization of human error in transcriptions and updates, which always ensures that documents do reflect the current data. 2) Automation of document creation, which is very useful for generating reports which includes updated data, calculations or results that need to be frequently revised.