

Week 1 Tasks - Data Science Programming

[Your Name Here]

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Week 1 Tasks

This R Markdown document contains solutions to all Week 1 tasks using the `student_scores.csv` dataset.

Task 1 – Hello World

Write a program that prints: “Welcome to Data Science Programming!”

```
# Task 1: Hello World  
# Write your code here
```

Task 2 – Simple Math

Calculate and print the result of: $-15 + 23 - 120 / 6$
- 5^3 (5 to the power of 3)

```
# Task 2: Simple Math  
# Write your code here
```

Task 3 – Variables and Vectors

Create a vector of 5 numbers: `c(10, 20, 30, 40, 50)`.

Print the vector and the sum of its elements.

```
# Task 3: Variables and Vectors  
# Write your code here
```

Task 4 – Plot Squares

Create a vector of numbers from 1 to 10.

Plot the numbers against their squares using the `plot()` function.

```
# Task 4: Plot Squares  
# Write your code here
```

Task 5 – Load Dataset

Load `student_scores.csv` into your program.

Display the first 5 rows.

```
# Task 5: Load Dataset  
# Write your code here
```

Task 6 – Summary Statistics

Print the average (mean) of the `Score` column.

Print the minimum and maximum scores.

```
# Task 6: Summary Statistics  
# Write your code here
```

Task 7 – Filtering Data

Find and print the names of students who scored greater than 80.

```
# Task 7: Filtering Data  
# Write your code here
```

Task 8 – Sorting Data

Sort the dataset by `Score` in descending order.

Display the top 3 students.

```
# Task 8: Sorting Data
# Write your code here
```

Task 9 – Visualization

Create a histogram of scores.

Add appropriate title and axis labels.

```
# Task 9: Visualization
# Write your code here
```

Submission Notes

- Ensure all code chunks run without errors
 - Include appropriate comments in your code
 - Make sure plots are properly displayed
 - Knit this document to HTML/PDF before submission
 - Save and submit this file as `Week1_Tasks.Rmd`
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End of Week 1 Tasks