**X/HEC TIME SERIES 2023 - Practical Session Report Template**

**Group Members:**

(Please list the names of all group members here)

**Introduction**

(Briefly introduce the dataset and the objective of the practical session. Mention the specific time series analysis task you were assigned, like forecasting energy consumption, analyzing financial time series, etc.)

**Data Preprocessing**

(Describe the preprocessing steps taken to prepare the dataset for the analysis. Include any feature engineering, normalization, or data transformation steps.)

**Model Architecture and Training**

(For each model, describe the architecture details like the number of layers, type of layers, loss function, optimizer, and any specific hyperparameters. Also, provide a brief description of the training process.)

**Results and Comparison**

* **Model Performance**:
  + (Provide a summary of each model's performance. Include metrics like accuracy, RMSE, MAE, or any other relevant metrics used in your analysis.)
* **Comparison**:
  + (Compare the performance of the different models. Discuss which models performed the best and why. Analyze their strengths and weaknesses in the context of the time series data you worked with.)

**Discussion**

(Reflect on the learning experience from the practical session. Discuss any challenges faced while implementing the models and how you overcame them. Mention any insights gained about deep learning techniques in time series analysis.)

**Conclusion**

(Summarize the key findings from your practical session. Reflect on the effectiveness of deep learning models in time series analysis and any potential future work or improvements that could be made.)

**Note to Students**: Keep your report concise and focused. The total length should not exceed **2 pages**. Use graphs or tables to effectively present your results, but ensure they are well-labeled and relevant to your discussion.

**Submission Deadline**: [TBD]

Please submit the report in a PDF format to [charles.boy-de-la-tour@capgemini.com].