**RESEARCH DATA MANAGEMENT SYSTEM**

1. **Introduction**

Research Data Management System is an application which helps the user to keep a record of their research data and get a summary of the stored data.

1. **Set Up Instructions**
2. Download Install Python from the blow website Make sure to download python 3.9 or later [https://www.python.org/](https://www.python.org/%20)
3. Download the python script from the attached files
4. Open your IDE and open the python file named CWK(A).py, CWK(B).py and CWK(C).py (IDLE, PyCharm etc.)

4. Click the run button to run the application

1. **How To Use**

When you run the program, it will ask for the option you want to go with.

1. **Add a research data entry Feature**

Select the first option from the main menu This will allow you to add a new entry.

* + First enter name of the entry. Entry should be unique, which means you can’t enter before entered name as entry name.
  + Enter researcher’s name
  + Enter data of your research. It can be integers of floating point numbers
  + Date(current date) will automatically added.

1. **View all entries Feature**

This will allow you to view all your entries.

1. **Analyze data Feature**

This will ask you to enter name of the entry. So enter the name of the entry you want to analyze. Then it will show the analyzed data(average, standard deviation and median)

1. **Save entries to file Feature**

When you choose this option automatically save the all entries to the file. In CWK(A) and CWK(B) data will save to a txt file and in CWK(C) and CWK(D) data will save to avro file.

1. **Update entry Feature**

This will allow you to update any entry as you want. Enter the name of entry you want to update.

Select the option(name, researcher’s name and data points) you want to update. Your updates will be saved.

1. **Delete entry Feature**

Feature This will allow you to delete the transactions. Enter the name of the entry you want to delete. Then your selected entry will be deleted.

1. **View entries in readable mode Feature**

This feature you can see in only CWK(C) and CWK(D). This option to convert the avro file to readable mode.

1. **Exit Feature**

This will exit the program