|  |  |
| --- | --- |
| **Software Requirements** | **Requirements Met** |
| Requirement 1:   * Plan out the project. * Create a software requirement document (SRD) for the project listing all the requirements and how they were fulfilled. * Install Matplotlib |  |
| Requirement 2:   * Download Template files. * Data Visualization  1. Simple Line 2. Scatter |  |
| Requirement 3: Create Random walks.   1. It needs to choose a random direction 2. Styled 3. Start and end points. 4. Make multiple walks. |  |

|  |  |
| --- | --- |
| Requirement 4: Expand Environment   1. Install plotly |  |
| Requirement 5: Creating Dice Rolling   1. Create Die class 2. Rolling the Die 3. Make a histogram 4. Rolling two dice 5. Different sized die | Figure :Create a die class    Figure : Rolling the die & rolling multiple dice.    Figure : Making Histogram    Figure :Rolling with dice of different sizes. |
| Requirement 6: CSV File Format   1. Parsing the CSV File header 2. Extract and read data 3. Plotting a temperature chart 4. Work with death valley data | Figure : Code to parse the File header.    Figure :Extracting and reading the data.    Figure :Plotting to a chart    Figure :Death Valley code.    Figure :Death Valley output |
| Requirement 7: Mapping Global Data Sets   1. World Populations 2. Countries 3. Country Codes 4. NA populations 5. Americas | Figure : Taking all the countries populations and mapping them into 3 categories based on population.    Figure : Output for World Population.    Figure : Code for the funciton to get the country codes.    Figure : Output for country code function.    Figure :Code for NA Populations    Figure : Output for NA populations. |