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| Name Of The Student | Vaishnavi G |
| Internship Project Topic | Build a Classification Model for Drug Trials Dataset |
| Name of the Organization | TCS iON |
| Name of the Industry Mentor | Himdweep Walia |
| Name of the Institute | SRM Institute of Science and Technology |

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| Date | Day # | Hours Spent |
| 21/11/2022 | 40 | 5 hours |
| Activities done during the day:  **Project Hands on - Various conditions the medicine cures (top 10)**  **To check the various conditions the medicine cures (top 10) since they are over thousand**   |  | | --- | | **df['condition'].value\_counts().head(10).plot(kind='bar')**  **plt.xlabel('condition')**  **plt.show()** |   **df** - A Data frame is a two-dimensional data structure, i.e., data is aligned in a tabular fashion in rows and columns.  **Value counts() -** pandas is an open-source Python library that provides operations to analyze and manipulate data structures called data frames. The value\_counts() function in pandas returns a series that contains the number of unique values.  A series is a one-dimensional array.  **plot() :**  Pandas uses the plot() method to create diagrams. We can use Pyplot, a submodule of the Matplotlib library to visualize the diagram on the screen.  **kind='bar'**  The plot.bar() function is used to vertical bar plot.  A bar plot is a plot that presents categorical data with rectangular bars with lengths proportional to the values that they represent. A bar plot shows comparisons among discrete categories. One axis of the plot shows the specific categories being compared, and the other axis represents a measured value.  **plt.xlabel('')**  The xlabel() function in pyplot module of matplotlib library is used to set the label for the x-axis..  **Pyplot**  Most of the Matplotlib utilities lies under the pyplot submodule, and are usually imported under the plt alias:   |  | | --- | | **import matplotlib.pyplot as plt** |   **plt.show()**  The show() function in pyplot module of matplotlib library is used to display all figures.  **Code :**   |  | | --- | |  |   **Output:**   |  | | --- | |  | | | |