**Summary:**

**Analytical Skills:**

*Qualities and characteristics associated with solving problems using facts*

* *You probably poses analytical skills, you might just not know yet*
* *People often overlook their existing knowledge while learning something new*
* *But it's important to acknowledge it, you’re more prepared than you think you are!*

**These are the five essential Analytical skills:**

1. *Curiosity*
2. *Understanding Context*
3. *Having a Technical Mindset*
4. *Data Design*
5. *Data Strategy*

**Flash Cards:** *Gives better understanding of the five essential analytical skills*

**The qualities and characteristics associated with solving problems using facts :**

**Analytical skills**

**The analytical skill that involves breaking processes down into smaller steps and working with them in an orderly, logical way :**

**A technical mindset**

**The analytical skill that involves how you organize information :**

**Data design**

**The analytical skill that has to do with how you group things into categories :**

**Understanding context**

**The analytical skill that involves managing the processes and tools used in data analysis :**

**Data strategy**

***People don’t think about thinking, thinking is second nature to us, it just happens automatically!***

**There are many different ways of thinking:-**

* *Creative Thinking*
* *Critical Thinking*
* *Analytical Thinking*
* *Abstract Thinking*

**Analytical Thinking :** *Identifying and defining a problem and then solving it by using data in an organized, step-by-step manner.*

**5 Key aspects to Analytical Thinking:**

1. **Visualization :** *Graphical representation of information*
2. **Strategy  *:*** *Strategic mindset is key to staying focused and on track*
3. **Problem-Orientation** *: Identify, describe and solve problem*
4. **Correlation :** *Reln between 2 or more pieces of data*
5. **Big-Picture and Detail-Oriented Thinking**

***Correlation does not equal causation****, two pieces of data trending in the same direction does not necessarily mean that they are all related*

*QA) Data Visualization involves using* ***graphs, maps and charts*** *for representing the present data.*

*QA) To execute a plan using detail-oriented thinking a DA considers the* ***specifics****.*

**Learning Log: Explore data from your daily life**

**Instructions**You can use this document as a template for the learning log activity: Explore data from your daily life. Type your answers in this document, and save it on your computer or Google Drive.

We recommend that you save every learning log in one folder and include a date in the file name to help you stay organized. Important information like course number, title, and activity name are already included. After you finish your learning log entry, you can come back and reread your responses later to understand how your opinions on different topics may have changed throughout the courses.

To review detailed instructions on how to complete this activity, please return to Coursera: [Learning Log: Explore data from your daily life](https://www.coursera.org/learn/foundations-data/supplement/RNx3Z/learning-log-explore-data-from-your-daily-life).

| **Date:** <enter date> | **Course/topic:** Course 1: Foundations: Data, Data Everywhere | | |
| --- | --- | --- | --- |
| **Learning Log:** Explore data from your daily life | | |
| **Create a list** | Create a list exploring an area of your daily life and include details, such as the date, time, cost, quantity, size, etc:  Watching anime:   * December 4 Watched World Trigger Season 1 7 episodes * December 5 Watched World Trigger Season 1 12 episodes * December 6 Watched World Trigger Season 1 4 episodes * December 7 Watched World Trigger Season 1 3 episodes * December 8 Watched World Trigger Season 1 4 episodes * December 9 Watched World Trigger Season 1 22 episodes * December 10 Watched World Trigger Season 1 20 episodes   Season 1 finish   * December 11 Watched World Trigger Season 2 10 episodes * December 12 Watched World Trigger Season 2 2 episodes and Season 3 14 episodes   Season 2 and 3 finish   * December 13 Watched Noragami OVA * December 14 No anime * December 15 No anime * December 16 Mob psycho Season 3 3 episodes * December 17 No anime | | |
| **Reflection:** | Write 2-3 sentences (40-60 words) in response to each of the questions below. | | |
| **Questions and responses:** | * Are there any trends you noticed in your behavior?   *When I had little to no work to do I was binge watching and utilizing all the time I had lol. I was still making sure I don’t break my streak and keep learning Excel and practice SQL*   * Are there factors that influence your decision-making?   *Factors such as do I have an exam in the next 2 days, so that I can prepare for the exam, always keeping up with the tasks, and having enough curiosity to watch anime.*   * Is there anything you identified that might influence your future behavior?   *I have noticed this is the c*ycle I go through, I binge watch and when I focus on work I don’t even feel like watching, for the sake of refreshment if there’s a seasonal, I make sure to watch it on a regular basis, this season it's MHA season 6 | | |