Activity No. 14.1 Build a narrative on a storyboard						
Course Code: CPE311	Program: Computer Engineering					
Course Title: Computational Thinking with Python	Date Performed: 05/13/2025					
Section: CPE22S3	Date Submitted: 05/13/2025					
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1. Discussion (Problem, Statement to Question, and Find Data)

Build a storyboard outline for ADSE competition.

Title: ""HIV Growth Trends Among Filipino Youth Compared to Other ASEAN Nations"

What Is HIV?

- HIV (human immunodeficiency virus) is a virus that attacks cells that help the body fight infection, making a person more vulnerable to other infections and diseases. It is spread by contact with certain bodily fluids of a person with HIV, most commonly during unprotected sex (sex without a condom or HIV medicine to prevent or treat HIV), or through sharing injection drug equipment.

Source: https://www.hiv.gov/hiv-basics/overview/about-hiv-and-aids/what-are-hiv-and-aids

Problem: HIV cases in minors(ages 0-19) are rising in the Philippines, compared to other ASEAN countries their HIV cases are already on a decline.

Questions:

- 1. How can we control HIV cases in PH?
- 2.Do the factors Education, Income, Religion have a correlation to HIV cases?
- 3. What role does access to youth-friendly healthcare and sexual education play in HIV prevention? 4.How effective are current government and NGO-led HIV awareness programs among Filipino youth?

The HIV Situation in the Philippines

HIV remains a serious public health issue in the Philippines, especially among youth. As of June 2023, there are 117,946 reported HIV cases, with 29% from ages 15–24. Of youth cases, 98% were due to sexual contact. This World Health Day, we highlight the importance of protecting young people's health as a basic right—through access to safe, non-discriminatory, quality care.

Youth and HIV Data

Young people are at higher risk due to misinformation, limited access to services, and stigma. Recent data shows declining HIV awareness—from 95% in 1994 to just 76% in 2021. Only 1 in 5 youth have full HIV

knowledge, contributing to rising infection rates.

The Need for Comprehensive Sex Education

Comprehensive sex education empowers youth to make informed decisions. Moving beyond abstinence-only programs, inclusive and realistic education helps reduce HIV risk and builds a healthier generation.

The Need for Gender-Affirming HIV and Health Services

MSM and transgender youth face higher HIV risks and healthcare barriers. Gender-affirming care—including respectful communication, confidentiality, and trained providers—encourages greater access to HIV testing and treatment.

Source: https://www.undp.org/philippines/blog/building-hiv-and-health-literacy-among-young-key

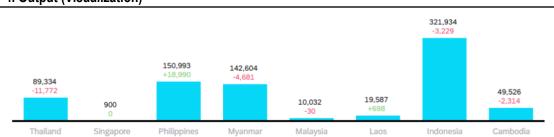
2. Materials and Equipment

- Computer/Desktop
- Access to internet
- Google (For article searching)
- SAP Analytics Cloud
- Jupyter Notebook

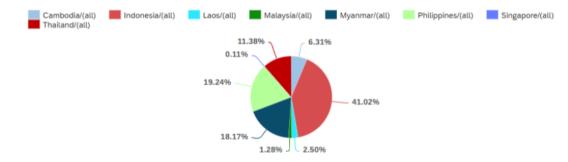
3. Procedure

- 1. Finding a problem
- 2. Finding Data set/articles about said problems
- 3. Cleaning of Data sets
- 4. Making Data Visualization of data sets
- 5. Give simple insights
- 6. Add some "Puff puff" so the general people would understand

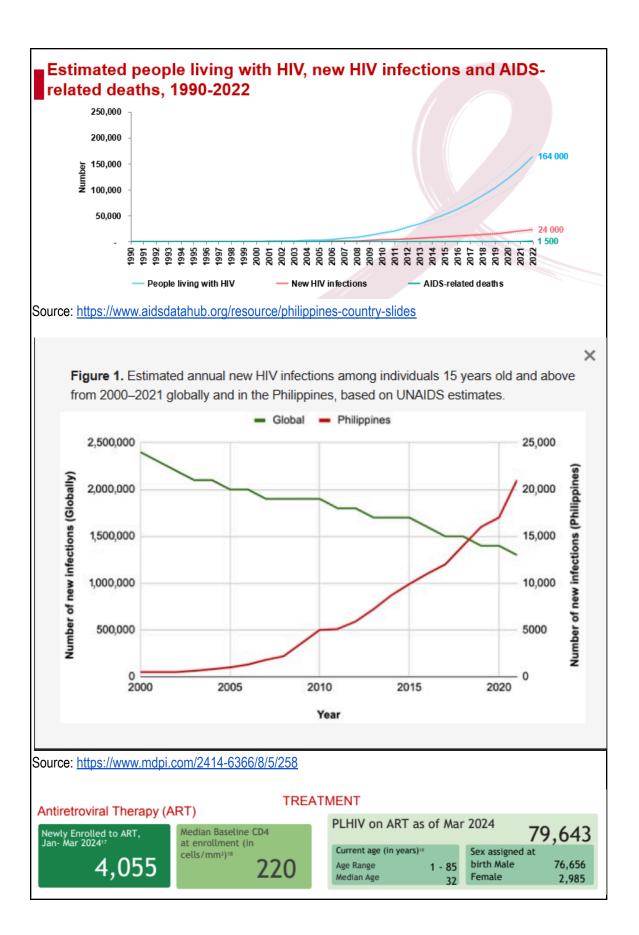
4. Output (Visualization)



ASEAN countries new HIV count in year 2023 targeted at ages 0-19



Percentage of ASEAN countries HIV data focused on ages 0-19



Source: https://www.aidsdatahub.org/resource/hiv-aids-surveillance-philippines-oct-dec-2023

5. Supplementary Activity

- What do you aim to prove with your dataset and visualization?
- We aim to show that HIV cases among Filipino youth are rising compared to other ASEAN countries, highlighting the urgent need for better education, awareness, and youth-focused healthcare.
- What is the narrative you want to write based on your data
- Title question: Should kids/teens be aware of HIV?
- Kids with HIV and why they suffer because of it. (with sources and picture of kid)
- Show correlation if Education or income relates to HIV
- Show visualization data that supports kids/teens having HIV
- Show the consequences if not treated
- Show mortality rate
- Recommendation (Why kids should be prioritized on ART treatment)
- Conclusion

6. Conclusion Individual

Sanchez, Justin Bjorn L.

The exercise revealed that HIV infections among Filipino youths are increasing relative to other ASEAN nations. This emphasizes the necessity for improved sex education, awareness, and access to healthcare. Analysis of data enabled us to comprehend the issue and provide actual solutions. This activity also helped me see my goal for the ADSE competition and made it seem plausible now.

Silang, Elijah Yohance O.

- This activity has helped me understand more about HIV infections among young Filipinos, finding correlation abou education was hard but manageable, doing this activity has helped me find doing the ADSE activity more feasible because doing things step by step makes things more clearer.

7. References:

- https://data.unicef.org/resources/dataset/hiv-aids-statistical-tables/
- https://www.undp.org/philippines/blog/building-hiv-and-health-literacy-among-young-key-population#:~:text=According%20to%20the%20June%202023,for%2029%25%20of%20overall%20reported
- https://www.mdpi.com/2414-6366/8/5/258
- https://www.aidsdatahub.org/resource/hiv-aids-surveillance-philippines-oct-dec-2023
- https://doh.gov.ph/health-statistics/hiv-sti/?fbclid=lwY2xjawKQO8ZleHRuA2FlbQlxMABic mlkETFLcHBmYUlwR2N3Vnl1ZzFLAR61W7HnZB8kJe0ivGOQ8NSpuGXrZJjFWCXd7M R96si1efXmN AjuilBmHmSMA aem cr9X5R6qKliDSJ0hWkvMAQ

8. Assessment Rubric

Criteria			F	Ratin	gs						Pts
© SO 7 Pl 1 Student Outcome 7.1 Acquire and apply new knowledge from outside sources. threshold: 4.8 pts	exist and flourish exist and flourish outside classroom requirements,knowledge and/or experiences are and/or experiences are		and pursuits flourish	Satis Lool class requisions show inter purs know	4 pts Satisfactory Look beyond classroom requirements, showing interest in pursuing knowledge independently		3 pts Unsatisfactory Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently		on om tion	1 pts Very Poor No initiative or interest in acquiring new knowledge	6 pts
SO 7 PI 2 Student Outcome 7.2 Learn independently threshold: 4.8 pts	Excellent Completes an assigned task independently and practices	5 pts Good Completes an assigned task without supervision or guidance	4 pts Satisfactory Requires minimal guidance to complete an assigned task	3 pts Unsatisfactor Requires deta or step-by-ste instructions to complete a tas		niled little interesep complete a independe		rest to a task	1 pts Very Poor No interest to complete a task independently		
Student Outcome 7.3 Critical thinking in the broadest context of technological change	Excellent Synthesizes and integrates information from a variety of sources; formulates a clear and precise	5 pts Good Evaluate information from a variety of sources; formulates a clear and precise perspective.	4 pts 2 Satisfactory Analyze Information Analyze Information Analyze Information Infor		3 pts Unsatisfac Apply the gathered informatic formulate problem	on to	2 pts Poor Gather and summarized the information from a variety of sources but failed to formulate the problem		information		6 pts
SO 7 PI 4 Student Outcome 7.4 Creativity and adaptability to new and emerging technologies threshold: 4.8 pts	6 pts Excellent Ideas are combined in original and creative ways in line with the new and emerging technology trends to solve a problem or address an issue.	5 pts Good Ideas creative and adapt the ne knowledge tr solve a probl or address an issue	ldeas are creative in solving a problem, o	Shows creativ solve the		ome ways	Pool inition to attended devices to s	initiative and attempt to		pts fery Poor feas are opied or estated from the sources onsulted	