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ABSTRACT

This study explore the awareness on cyber security practices among grade 10 computer system servicing (CSS) specialized students. In the increasing incidence of cyber threats in this world understanding cyber security practices are crucial. The researchers wants to assess the awareness of students on several cyber security practices, including strong password, online safety, phishing attacks, data privacy and so on. Through this research the students' understanding of key cyber security concepts, common threats, and best practices for protecting their personal and organizational data are become wide. This study focuses on importance of understanding cyber security threats to secure their information on the hacker or any threats that can harm their personal data. Students who get a deeper understanding of cyber security procedures will be more prepared to support the protection of digital systems in their life. On the other hand the main goal of this study is to aware students on the cyber security practices and cyber threats they may encounter as a learner of computer system servicing, it's necessary to understand the importance of securing their personal data. Many of the idea and practices they encounter will relate to protecting data, information and networks.



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INTRODUCTION

RATIONALE

“Cyber security is not a set of products – it’s a set of practices.” – Ed Amoroso, it means it is essential to take preventative steps and pay constant attention to detail since cyber dangers are always evolving, protecting ourselves and our data, we must be aware of the risks, take preventative action where necessary. This study focuses on the Awareness on cyber security practices among grade 10 students specializing Computer Systems Servicing. As these students are often used technology, their ability to recognize and lessen cyber threats is important for their personal safety. By being aware and having a deeper knowledge about cyber security practices it helps them recognize threats in their private information, this research can also improve their knowledge about cyber security so that everyone can have a safer digital environment.

Ondrušková & Pospíšil, (2023) conducted a study at Czech primary schools to assess children's cyber security awareness. Initial testing showed only a moderate level of awareness, and one-off training had an insignificant impact on their online behaviour. The study suggests that cyber security education should be integrated into the entire educational process. The paper provides recommendations for designing a cyber-security school curriculum based on the literature and the conducted research.

Perwej et al., 2021 stated that concerns regarding security, privacy, and financial recompense are emerging as a result of cyber-attacks. The goal of cyber security is to stop attacks, harm, and unauthorized access to computers, networks, software, and data. To do that, a variety of methods, procedures, and technologies are employed.

On the other hand, there are a lot of unresolved issues concerning the danger created by cyber-attacks. It's possible that a large number of students are unaware of the risk caused by using weak passwords or revealing personal information online. Their ignorance may put them at risk for identity theft and cyberbullying, among other cyber threats. Students and even other people usually underestimate the important role of privacy settings, phishing, and malware.

Li & Liu, 2021 stated that Cyber-attacks are intended to cause financial harm to businesses. Cyber-attacks may serve military or political objectives in other situations. Data distribution services (DDS), computer viruses, knowledge gaps, and other attack vectors are a few examples of these harms.

With all this, the researchers aimed to enhance students' understanding of cyber security protocols and better prepare them for life in today's digital world. They can create a more strong and safe digital future by being aware



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of the threats and implementing strong security processes and practices. The next generation may become responsible and knowledgeable digital citizens and help create a more secure and safe online environment for everyone if we provide them the knowledge and abilities, not only enhance their awareness but also help them be safe and become responsible online or internet users.

STATEMENT OF THE PROBLEM:

GENERAL PROBLEM: This study aimed to investigate the level of awareness on cyber security practices among Grade 10 Computer Systems servicing specialized students.

SPECIFIC PROBLEM:

Specifically, this study sought to answer these questions:

1. What are the profile of the respondents based on?
 - A. Name (OPTIONAL)
 - B. Age
 - C. Gender
2. What is the level of awareness of the respondents in terms of cyber security practices and how they apply their understanding of cyber security to their daily online activities?
3. What are the specific cyber security practices that Grade 10 Computer Systems Servicing specialized students are aware of?

By answering these questions, the study will be providing enlightenment about the Awareness on Cyber security Practices among Grade 10 CSS Specialized Students for the academic year 2024-2025.

SIGNIFICANCE OF THE STUDY:

This research aimed to know the level of awareness of students in cyber security practices. It was expected that this study could contribute to the students' learning gap about cyber security practices.

This research will be useful and convenient to the following:

Students - this study helps students to gain deeper knowledge about cyber security to protect their personal information and make informed decisions in their online safety.



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Teachers - this study is useful to teachers to secure students data and intellectual property, to ensure a safe learning environment.

Businesses - this study helps employees to be aware of cyber security, which can prevent data losses and also protect sensitive company information.

Healthcare workers - this study increased their awareness to help protect patients' data reducing the risk of constant data breaches.

Financial institutions - this study helps banks and financial services understand the importance of secure online learning transactions.

Future researchers - this study will help future researchers to have a deeper understanding about cyber security and being aware of it, they can also use this research work as a reference for their literature review and source material for research paper.

SCOPE AND DELIMITATION:

This study looks at the awareness of cyber security practices among Grade 10 CSS students at Meycauayan National High School during the 2024-2025 school year. Focusing on 200 students, both boys and girls, the research aims to see what they know about cyber security concepts, which practices they use, and how this awareness affects their online behaviour and data security. The study will gather information through surveys, ensuring everything is confidential and getting informed consent from all participants. By examining the data collected, researchers hope to understand the effectiveness of current cyber security education within the CSS Program. The goal is to focus the attention of areas that could use improvement in order to raise students' awareness and behaviours and, in the end help them develop better cyber security habits as early learners.

This study will take four months, from September to December, covering only the first semester of the 2024-2025 school year. It focuses on the awareness of cyber security practices among Grade 10 Computer Systems Servicing students at Meycauayan National High School. The research targets around 200 both boys and girls. We will gather data through surveys only, keeping everything confidential and getting consent from all participants. The study will only look at the current knowledge and practices of cyber security within this group and will not cover other areas.



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METHODOLOGY

In order to collect and analyse data that is pertinent to the research, this chapter describes a variety of methods. Giving an outline of the research approach employed in this study is the aim of this investigation. This covers the study topics, the methodology of data collecting, data analysis, and population and participant selection.

RESEARCH DESIGN

The researchers used quantitative and descriptive statistics for this study. The researchers are advised to conduct an introduction, results and discussion (IMRAD) approach study under the Information and Communication Technology (ICT) strand to ensure a systematic and logical presentation of the research process and findings. The researchers conduct a plan to use descriptive design for this study allowing for a comprehensive exploration of the participation and perspective of Grade 10 Computer Systems Servicing (CSS) Specialized Students in Meycauayan National High School regarding on Awareness on Cyber security Practices. The researchers used a descriptive method because it is particularly useful to describe the result of our gathered data and help researchers summarize and describe the main features of a dataset coming from the result of a survey questionnaire. Also, it can simplify comparative analysis between the different groups. This can help identify the differences and similarities that may justify further investigation or examination. The researcher's primary goal is to give valuable insight for awareness in cyber security practices among grade 10 computer systems servicing specialized students to make them aware of the internet threats they may face.

POPULATION AND SAMPLE

This study used random sampling, which makes it easier to gather respondents since everyone has an equal chance of participating in the study and gives every member of the defined population an equal and independent chance of being picked. There are a total of 200 Grade 10 Computer Systems Servicing Specialized Students enrolled in Meycauayan National High School. The 200 students are divided into five sections: Rizal with 47 students, Balagtas with 31 students, Jacinto with 27 students, Malvar with 33 students, and Dagohoy with 62 students. The researchers would only choose 6 respondents each section then the sampling size will be 30%. The Grade 10 Computer Systems Servicing Specialized Students will be used as the population for this study since their subject is related to the research topic. The researchers choose a sample of 30 Computer Systems Servicing Specialized respondents in this study.



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DATA COLLECTION

The questionnaire is focused on identifying the Awareness on Cyber Security Practices among Grade 10 Computer Systems Servicing Specialized Students. The questions created by the researchers were reviewed by a practical research teacher who ensured that the Google forms were properly formatted. The researchers created a survey questionnaire consisting of ten questions related to the study and it has four choices on a 4-point Likert scale. Each scale has definitions that will help researchers if they are aware of cyber security Practices among Grade 10 Computer Systems Servicing Specialized Students

DATA ANALYSIS

In our quantitative research plan, researchers decided to use descriptive statistics for our data analysis because they make understanding our data easier. Descriptive statistics help us summarize and describe our data without getting into complex mathematics. By using measures such as the average (mean), middle value (median), most common value (mode), and range, we can quickly understand the main features of our data, such as central tendencies and variations. This approach is especially helpful in the early stages of research, laying a solid foundation for any future analysis.

ETHICAL CONSIDERATIONS

The consent form will provide information about who the researchers are 12- Information and Communication Technology Students (Pascal), what the intent of the research was, what/how the data were collected from the respondents, how this data, would be used and recorded, methodologies and duration of the research, potential risks and benefits, and expectations of them as respondents.

Without any pressure or compulsion, the respondents could exercise the freedom of choice by which they decided whether or not to participate in the survey. It was important to make to respondents that declining to take part in the experiment has no negative consequences or penalties. All respondents will be permitted to discontinue answering the questionnaire at any time without feeling obligated to do so, especially if they experience any mental distress from answering the survey questionnaire if there were any such occurrences, the participants could inform us.

Researchers would maintain a trustworthy relationship with our respondents. All respondents who participated have a right to privacy. Researchers secure the respondents' personal information for as long as they had or used it and could access their information. Since the experiment required the respondents' names, their data and information remained confidential. Our group secured the respondents' consent by providing them with information about how their data would be used and ensured by us.



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DATA ANALYSIS AND INTERPRETATION

Table 1 A: Demographic Profile (Gender)

Male	11	37%
Female	19	63%
Total	30	100%

Table 1 B: Demographic Profile (Age)

13	0	0%
14	2	6%
15	23	77
16	5	17
Total	30	100%

Table 1 C: Arbitrary Table

1.00 - 1.74	Fully not Aware
1.75 - 2.49	Not Aware
2.50 - 3.24	Aware
3.25 - 4.00	Fully Aware



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1.) Are you aware on the cyber security practices provided that you information will keep you secure?

Table 2A:

Mean	Standard Deviation	Interpretation
2.93	0.3	Aware
3.53	0.268328157	Fully Aware
3.53	0.268328157	Fully Aware
3.53	0.268328157	Fully Aware

On Question #1A the weighted average mean Is 3.38 showing that the respondents are Fully aware to the given cyber security practices, The standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.

2.) Are you aware on the strong password practices provided?

Table 3A:

Mean	Standard Deviation	Interpretation
3.66	0.156268999	Fully Aware
3.46	0.128918579	Fully Aware
3.3	0.147986486	Fully Aware
3.43	0.12973049	Fully Aware

On Question number 2 the weighted average mean is 3.36 showing that the respondents are fully aware to the given Strong password practices, The standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.



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3.) Are you aware of phishing attacks?

Table 4A:

Mean	Standard Deviation	Interpretation
3.1	0.09859006	Aware
2.86	0.106770783	Aware
3.03	0.088487287	Aware
3	0.087292611	Aware

On Question #3 the weighted average mean is 2.99 showing that the respondents are aware to Phishing attacks, The standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.

4. Are you aware in the daily online activities provided that you can help you apply your knowledge about cyber security?

Table 5A:

Mean	Standard Deviation	Interpretation
3.36	1.395503493	Fully Aware
3.53	1.409704461	Fully Aware
3.36	1.395503493	Fully Aware
3.46	1.403458823	Fully Aware

On Question #4 the weighted average mean is 3.42 showing that the respondents are Fully aware to online activities given that can help to apply knowledge about cyber security, The standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.



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5.) Are you aware that you should avoid clicking suspicious email links?

Table 6A:

Mean	Standard Deviation	Interpretation
3.6	0.223203943	Aware
3.43	0.204523837	Fully Aware
3.5	0.209093281	Aware
3.06	0.253771551	Aware

On Question #5 the weighted average mean is 3.39 showing that the respondents are fully aware to avoid suspicious email links, the standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.

6.) Are you aware with two-factor authentication 2FA?

Table 7A:

Mean	Standard Deviation	Interpretation
3.26	0.09338094	Fully Aware
3.26	0.09338094	Fully Aware
3.1	0.113490088	Aware
3.36	0.106395489	Fully Aware

On Question #6 the weighted average mean is 3.24 showing that the respondents are Aware to two-factor Authentication, The standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.



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7.) Are you aware on entering suspicious sites?

Table 8A:

Tally of Respondents

Mean	Standard Deviation	Interpretation
3.4	0.100399203	Aware
3.3	0.090994505	Aware
3.16	0.11171392	Aware
3.36	0.094233752	Fully Aware

On Question #7 the weighted average mean is 3.30 showing that the respondents are fully aware to Entering Suspicious sites, The standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.

8.) Are you aware on backing up your important data regularly?

Table 9A:

WAM	Standard Deviation	Interpretation
2.93	0.18915602	Aware
3.33	0.233623629	Fully Aware
2.93	0.18915602	Aware
2.86	0.197661327	Aware

On Question #8 the weighted average mean is 3.01 showing that the respondents are aware to Backing up important data regularly, the standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.



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9.) Are you aware that you should updating your software?

Table 10A:

WAM	Standard Deviation	Interpretation
3.26	0.110995495	Fully Aware
3.36	0.105924501	Fully Aware
3.23	0.115887877	Aware
3.5	0.128062485	Aware

On Question #9 the weighted average mean is 3.33 showing that the respondents are fully aware to updating software, the standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.

10.) Are you aware on sharing your passwords to other people?

Table 11A:

Mean	Standard Deviation	Interpretation
2.8	0.410974452	Not Aware
2.06	0.334544466	Not Aware
2.06	0.334544466	Not Aware
2.03	0.337979289	Not Aware

On Question #10 the weighted average mean is 2.23 showing that the respondents are not aware to sharing password to other people, the standard deviation shows that items A to D are close to each other, meaning that the responses are very similar.



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RESULTS

Profile of the Respondents

Table 1. Age of the Respondents

Age	Frequency	Percentage
13	0	0%
14	2	6%
15	23	77
16	5	17
Total	30	100%

Some respondents are unfamiliar with cyber security these days, the researchers are interested in knowing the respondents' ages in order to determine which age group is most aware of cyber security practices. Because some younger generations use weak passwords and reuse them across several accounts, people's cyber security behaviors and practices are different by age.

Table 2. Gender of the Respondents

Male	11	37%
Female	19	63%
Total	30	100%

Researchers want to know the gender of the respondents because researchers know that when it comes to cyber security practices some women has not familiar with some of the cyber security practices unlike to men who likely know cyber security practices and know to participate in specific online activities including social media and online gaming.



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Level of awareness on cyber security practices and how they apply their understanding

Item	Mean	Standard Deviation	Interpretation
1. Cyber Security Practices	3.38	0.343328157	Fully Aware
2. Strong Password Practices	3.46	0.1407261385	Fully Aware
3. Phishing Attacks	2.99	0.09528518525	Aware
4. Daily Online Activities	3.42	1.4010425675	Fully Aware
5. Suspicious Email Links	3.39	0.222648153	Fully Aware
6. Two-Factor Authentication 2FA	3.24	0.10166186425	Aware
7. Entering Suspicious Sites	3.30	0.099335345	Fully Aware
8. Back up important data	3.01	0.202399249	Aware
9. Updating your software	3.33	0.1152175895	Fully Aware
10. Sharing your passwords	2.2	0.35451066825	Not Aware

According to the results of conducted survey questionnaires, most of the respondents got 2.99-3.46 mean average meaning they are aware on cyber security practices that researchers provided on the questionnaire. In addition the standard deviation of each data are lower which means that the result of their level of awareness are connected to one another. Also based on the respondents answer they apply their understanding on cyber security practices when the respondents are using online application and when they are creating an account or fill up on online website that needs a private information.

Specific cyber security practices that grade 10 students are aware of

Most of the respondents are aware on putting strong password in their personal account to keep their information safe also the second practices that students are aware is avoid clicking suspicious link to prevent their private information from being stolen and the last one is installing firewalls to help user prevent hackers to gain authorized access on information and to protect their personal data from cyber-attacks.



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DISCUSSION

The researchers found out in the study with Grade 10 Computer System Servicing students that some of the respondents are applying their knowledge in cyber security in their daily basis Especially when they are use online application and when they are creating an account, that's why the respondents are aware on the application that can harm their personal information or data. The results of the survey also showed that the respondents who participated in online activities such as gaming or social media were more likely to be aware of cyber threats. It shows how important it is to keep improving these practices and make sure that students have knowledge and skill in applying their cyber security knowledge in their digital world.

Based on the findings that has been collected from the survey questionnaire regarding cyber security practices among grade 10 Computer System Servicing specialized students, shows that respondents are generally fully aware of the practices and examples provided in the most questions. However, the other respondents are just aware of the practices and need an improvement and broader knowledge when it comes to the practices necessary to prevent cyber threats and examples of cyber threats that they may encounter and face when using technology. In this regard, the survey found that although the majority of students recognized the value of creating strong passwords, some of them were not familiar with two factor authentication. In the same way, although many students were aware of phishing emails, they lacked the skills necessary to recognize and stay clear of these malicious websites.

The researchers found out in the study with Grade 10 Computer System Servicing students that some of the respondents are applying their knowledge in cyber security in their daily basis Especially when they are use online application and when they are creating an account, that's why the respondents are aware on the application that can harm their personal information or data. The results of the survey also showed that the respondents who participated in online activities such as gaming or social media were more likely to be aware of cyber threats. It shows how important it is to keep improving these practices and make sure that students have knowledge and skill in applying their cyber security knowledge in their digital world. It can be seen as well in Alharbi et al., (2021) it highlights the importance of students being aware At the Cyber security challenges that they could face in, especially at the schools and Colleges that's why it is really important to be aware in every cyber security consequence.



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CONCLUSION

This study is necessary to highlight the importance of awareness on cyber security practices of grade 10 computer system servicing (CSS) specialized students in the year 2024-2025 of Meycauayan National High School. As technology continues to evolve and cyber-attacks can harm their information it is necessary to be aware on what practices and cyber threats can we encounter. The result of the research specifies that the students are becoming more aware on cyber security practices, but there are still problems faced in this study due to the lack of practices and experience that are not instructed properly in school. These results highlight the significance of practices and experience in terms of cyber security to enhance their knowledge and awareness on cyber security practices.

Students need to have the skills and information necessary to keep up with the most recent developments in cyber security practices. Some students were not familiar with some of cyber security practices because of lack of their knowledge about cyber security, it's possible that some students who are irresponsible with their gadgets are just ignorant of the risks associated with using technology. This ignorance could have negative consequences. Students who are ignorant of cyber security practices are prone to phishing and identity theft. Furthermore, they might not be aware of the importance of strong passwords, secure online actions, and data security, which exposes their personal data to abuse.

The Study on Awareness on Cyber Security practices among Grade 10 Computer System Servicing (CSS) Specialized Students in Meycauayan National High School for the Academic Year 2024-2025 provides valuable insights into the importance of practices on cyber security to inform us to be aware of threats and suspicious websites that we can encounter. Grade 10 Computer System Servicing (CSS) Students have a moderate understanding of cyber security practices. Although some students have knowledge of essential practices, they still lack awareness in other practices.

In the end, the researchers found that the study in Grade 10 Computer system servicing specialized students are aware in some areas in cyber security practices such as application that can harm the students' personal information or data as well as at the games or social Medias that can cause cyber threats to them, however, there are also things that the students don't really seem aware of in cyber security practices that can cause harm to their personal information like sharing personal information to others that's why the researchers suggest the students among grade 10 Computer system servicing specialized students to have more improvements in understanding more about cyber security specifically in password sharing.



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RECOMMENDATION

Regarding the "Awareness of Cyber Security practices among Grade 10 Computer Systems Servicing Students," the researchers would like to provide a recommendation for enhancing future research.

- The researchers suggested to improve more understanding and practices on cyber security.
- It is advisable for future researchers to know the types of cyber threats to easily apply the practices needed.
- Researchers suggested that avoid clicking any suspicious links especially if your personal information is needed
- Teachers should educate their students about cyber security practices in order to raise their level of awareness.
- Researchers suggesting to make an hands on work shop for students where they can learn about cyber security practices
- Researchers recommend adjusting the privacy settings on social media and other accounts to protect personal information from the public or unknown individuals.



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APPENDICES

Consent Form

Dear Participants,

Greetings! We are a group of Researchers currently enrolled in the subject Practical Research II at Meycauayan National High School from 12 - Information and Communication Technology (PASCAL) conducting an analysis entitled "Awareness on Cyber security Practices among Grade 10 Computer Systems Servicing Specialized Students" The purpose of this study is to enhance students understanding of cyber security protocols and better prepare them for life in today's digital world. May we humbly request to kindly answer the questionnaire with your utmost honesty, the information you will provide will enable our research group attain the purpose of the study. Rest assured that all the gathered information will kept confidential and will only be used in this study. Your participation in filling out this survey questionnaire is highly appreciated.

Researchers,

Angela S. De Castro
Julianne Mae A. Dolores
John Vincent M. Lisondra
John Kenneth M. Escrupolo
Noli G. Vargas Jr.

If you want to participate kindly fill out the check boxes below.

- ☐ I agree
☐ I disagree

Date



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Survey Form

Name (Optional):

- ☐ **Age:**
☐ 13
☐ 14
☐ 15
☐ 16

☐ **Gender**

☐ Male

☐ Female

☐ **Section**

☐ Rizal

☐ Balagtas

☐ Jacinto

☐ Malvar

☐ Dagohoy

Read each statement carefully and respond based on your level of awareness.

1. Are you aware on the cyber security practices provided that you information will keep you secure?

4 - Fully Aware 3 – Aware 2 - Not Aware 1 - Fully not Aware

A. Install firewalls

B. Use strong password

C. Back up important data

D. Avoid opening suspicious email



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2. Are you aware on the strong password practices provided?

4 - Fully Aware 3 – Aware 2 - Not Aware 1 - Fully not Aware

- A. Facebook
- B. Instagram
- C. Roblox
- D. Gcash

3. Are you aware of phishing attacks?

4 - Fully Aware 3 - Aware 2 - Not Aware 1 - Fully not Aware

- A. Email phishing
- B. PayPal scams
- C. Link manipulation
- D. SMS Phishing

4. Are you aware in the daily online activities provided that you can help you apply your knowledge about cyber security?

4 – Fully Aware 3 – Aware 2 – Not Aware 1 – Fully not Aware

- A. Making online purchases
- B. Logging in
- C. Playing games
- D. Scrolling in social media



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5. Are you aware that you should avoid clicking suspicious email links?

4 – Fully Aware 3 – Aware 2 – Not Aware 1 – Fully not Aware

- A. Fake website
- B. Claim your prize
- C. Verify your account
- D. Download your document

6. Are you aware with two-factor authentication 2FA?

4 – Fully Aware 3 – Aware 2 – Not Aware 1 – Fully not Aware

- A. Online Shops
- B. Online Games
- C. Online Banking
- D. Social Media

7. Are you aware on entering suspicious sites?

4 – Fully Aware 3 – Aware 2 – Not Aware 1 – Fully not Aware

- A. Fake news websites
- B. Fake log in pages
- C. Fake online stores
- D. Malicious pop-ups

8. Are you aware on backing up your important data regularly?

4 – Fully Aware 3 – Aware 2 – Not Aware 1 – Fully not Aware

- A. Cloud
- B. Google Drive
- C. One Drive



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D. Backup and restore app

9. Are you aware that you should updating your software?

4 – Fully Aware 3 – Aware 2 – Not Aware 1 – Fully not Aware

- A. Operating System (Android OS)
- B. Application
- C. Online Information
- D. Software update

10. Are you aware on sharing your passwords to other people?

4 – Fully Aware 3 – Aware 2 – Not Aware 1 – Fully not Aware

- A. Family
- B. Friends
- C. Relatives
- D. Classmates



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Curriculum Vitae



ANGELA JOYCE S. DE CASTRO
12- Pascal

MOTIVATIONAL QUOTES

“TRY AND TRY UNTIL YOU SUCCESS”

ABOUT ME

Information

Age: 17

Birthday: May 27, 2007

Gender: female

CONTACT

09662857194
decastroangelajpyce18@gmail.com
322 Cherubin Homes S Manalo,
Meycauayan Bulacan

EDUCATION

PRIMARY SCHOOL

Our Lord's Angel School
(2012-2017)

SECONDARY SCHOOL

Meycauayan National High school
(2018-PRESENT)

SKILLS

CREATIVE

LEADERSHIP

TIME MANAGEMENT

TEAMWORK



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JULIANNE MAE A. DOLORES

12- Pascal

MOTIVATIONAL QUOTES

“JUST BECAUSE ITS HARD, DOESN'T MEAN
ITS IMPSIBLE”

CONTACT

09531177427
Doloresjulianne@gmail.com
Phase 7 Bahay Pare Meycauayan
Bulacan

EDUCATION

PRIMARY SCHOOL
Saluysoy Integrated school
(2012-2022)

SECONDARY SCHOOL
Meycauayan National high school
(2022-PRESENT)

ABOUT ME

Information

Age: 17

Birthday: July 30, 2007

Gender: female

SKILLS

LEADERSHIP

COOPERATIVE

RESPONSIBLE

MULTITASKING



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JOHN VINCENT M, LISONDRA
12- Pascal

MOTIVATIONAL QUOTES

“IF YOU WANT SOMETHING YOU'LL DO
WHATEVER IT TAKES”

CONTACT

09913417586
johnvincentlisondra@gmail.com

EDUCATION

PRIMARY SCHOOL

Saint anne in the blessed mary
Academy (2012-2013)

Central one Elementary School
(2013-2018)

SECONDARY SCHOOL

Jacobo Z. Gonzales Memorial
National High school (2019- 2020)

Assembly Women felicit G.
Bernardino memorial trade school
(2020-2022)

Meycauayan National High school
(2022-PRESENT)

ABOUT ME

Information

Age: 17

Birthday: October 15, 2007

Gender: Male

SKILLS

DRAWING

RESPECTFUL

OBEDIENT

DILIGENT



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JOHN KENNETH M. ESCRUPOLO
12- Pascal

MOTIVATIONAL QUOTES

“IF YOU CAN DREAM IT, YOU CAN DO IT”

CONTACT

09565527146
escrupolokenneth@gmail.com
Blk 6 lot 3 Elysian Homes Bahay
Pare Meycauayan Bulacan

EDUCATION

PRIMARY SCHOOL

Bahay pare elementary school
(2012-2018)

SECONDARY SCHOOL

Meycauyan national high school
(2019-PRESENT)

ABOUT ME

Information

Age: 17

Birthday: January 02, 2007

Gender: Male

SKILLS

SOCIABLE

FAST

LEARNER

TEAMWORK



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NOLI G. VARGAS JR.

12- Pascal

MOTIVATIONAL QUOTES

"MY LIFE IS LIKE AN ART, I CAN MAKE IT
PERFECT UNTIL I SUCCEED"

CONTACT

09463445664
nv4629325@gmail.com
Fabre St. Sitio 3 Bahay Pare
Meycauayan Bulacan

ABOUT ME

Information

Age: 20

Birthday: April 01, 2004

Gender: Male

EDUCATION

PRIMARY SCHOOL

Lawa elementa school
(2015-2016)

Caingin bayanihan elementary
school (2016-2017)

Bahay pare elementary school
(2017-2018)

SECONDARY SCHOOL

Meycauyan national high school
(2018-PRESENT)

SKILLS

DRAWING

DIGITAL

ART

DANCING

CREATIVE

ART

SCULPTURE

COCKER



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REFERENCES

- Perwej, Y., Abbas, S., Dixit, J., Akhtar, N., & Jaiswal A., (2021). A Systematic Literature Review on the Cyber Security. *International Journal of Scientific Research and Management*, 9(12), 669–710. 10.18535/ijssrm/v9i12.ec04
- Li, Y., & Liu, Q. (2021). A comprehensive review study of cyber-attacks and cyber security. emerging trends and recent developments. *Energy Reports*, 7(7), 8176–8186.
<https://doi.org/10.1016/j.egy.2021.08.126>
- Ondrušková, D., & Pospíšil, R. (2023). *The Good practices for implementation of Cyber Security education for school Children*. *Contemporary Educational Technology*, 15(3), ep435.
<https://eric.ed.gov/?q=awareness+on+cyber+security+practices&id=EJ1394781>
- Alharbi, T., & Tassaddiq, A. (2021). Assessment of Cybersecurity Awareness among Students of Majmaah University. *Big Data and Cognitive Computing*, 5(2), 23. <https://doi.org/10.3390/bdcc5020023>