

HARDWARE AND HARDWARE SECURITY



JANITH HARSHAPRIYA JAYASEKARA

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Offering

**I present this book with love to
my mother and father
who always look at the
shortcomings of my books
and see all my sorrows and joys,
my dear brothers and sisters
who always help me.**

Thank you!

PREFACE



The revival of literature is a sign of progressive development and qualitative education in any country. In this regard, as part of an action research project initiated by me to create a platform for young children to develop their literary skills, I started this initiative in 2014. Over the past years, I, along with my energetic team, guided and supported by the principal of Mahamaya Girls' College, Kandy, have been able to nurture nearly 60,000 young writers from many schools across the country. It is an honor for me to see these saplings grow into large, fruitful trees with deep roots, enriching our society in the future with worthy citizens. Thus, I believe it is our duty to nurture them so they can continue this ardent art of writing. With pride, I must mention here that this is the first-ever project locally and internationally launched by a single school at the intra-school, zonal, provincial, national, and now international levels, addressing passionate writers from anywhere in the world. I must also mention that this year's project has been extended to help the Samanera Bhikkhus in Buddhist monasteries to write and publish their own books on our platform. This project would not have become a reality without the immense support and guidance of the present principal, Mrs. S. S. Senadheera, as well as the talented students, dedicated academic staff, parents, and well-wishers of Mahamaya Girls' College. They should be appreciated and honored for their incredible efforts in this worthy cause. As we know, printed books are still considered a major tool in education. The benefits and pleasure one derives from reading a book are invaluable. Research has shown that a lack of reading habits has many negative impacts on educational and social success. Furthermore, young people who are excessively engrossed in technology often face issues in their personal development. Good writers are also avid readers. Therefore, I strongly believe this project will bring a positive change among our younger generation. To cater to our tech-savvy children, we have reached another benchmark with the launch of an e-book platform. This allows our children to work in tandem with digital technology to compose their books, enabling them to access a wider global reading community. Last but not least, I convey my heartfelt congratulations to you for emerging as a young, talented, and passionate writer by taking part in this remarkable project.

Mrs. S.S. Senadheera

Principal

Mahamaya Girls' college – Kandy

2024-12-10



- **What is computer hardware?**
- **Main ways cause damage to hardware devices**
- **Methods to protect physical components of a computer**
- **Let's protect the computer from theft**

What is the Computer Hardware ?

- ▶ Any physical component of a computer that you can touch and see is called hardware. there are hardware devices outside of a computer and inside the system unit too.



Main ways that cause damage to hardware devices

- ▶ Sudden power failure.
- ▶ Overheat inside the system unit.
- ▶ Issues related to theft.
- ▶ Sudden flow of high voltage current.
- ▶ Dust gathering on computer hardware accessories.



Methods to protect physical components of a computer

► Using UPS

During sudden power failure, UPS continues to supply power to computer without interruption for a while. So, it enables to give sufficient time to save the current work and shut down the computer.



► Using fuse

Prevents damages caused to computer due to sudden flow of high voltage current. It is widely used in power supply units and etc. However, at present mini circuit breakers (MCB) are used in place of fuse due to easy use.



► Using surge protection

Protects the computer from high voltage current and lightning. Controls the flow of high voltage current to the devices and sends it to earth.



► Use air conditioners

Installing air conditioners in the compute laboratory to control the heat.



► **Fixing cooling fan**

**Fixing cooling fan on devices
which get heated highly inside
the computer**



Let's protect the computer from physical harm

- ▶ Remove the shoes when entering the computer lab.**
- ▶ Use of air conditioners whenever possible.**
- ▶ Keep the lab without moisture (wetness).**
- ▶ Keep the lab clean and tidy.**

- ▶ **Prevent insects and rats from entering the lab.**
- ▶ **Avoid taking food and drink inside the lab**



Let's protect the computer from theft

- ▶ Making doors and windows of the laboratory in such a way as to be lock property.
- ▶ Protecting system unit by locking it.
- ▶ Using CCTV camera.



AFTERWORD



The revival of literature is a sign of progressive development and qualitative education in any country. In this regard, as part of an action research project initiated by me to create a platform for young children to develop their literary skills, I started this initiative in 2014. Over the past years, I, along with my energetic team, guided and supported by the principal of Mahamaya Girls' College, Kandy, have been able to nurture nearly 60,000 young writers from many schools across the country. It is an honor for me to see these saplings grow into large, fruitful trees with deep roots, enriching our society in the future with worthy citizens. Thus, I believe it is our duty to nurture them so they can continue this ardent art of writing. With pride, I must mention here that this is the first-ever project locally and internationally launched by a single school at the intra-school, zonal, provincial, national, and now international levels, addressing passionate writers from anywhere in the world. I must also mention that this year's project has been extended to help the Samanera Bhikkhus in Buddhist monasteries to write and publish their own books on our platform. This project would not have become a reality without the immense support and guidance of the present principal, Mrs. S. S. Senadheera, as well as the talented students, dedicated academic staff, parents, and well-wishers of Mahamaya Girls' College. They should be appreciated and honored for their incredible efforts in this worthy cause.

Senavirathna Mahalekam

Founder of Books Publishing Project Among School Children

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