



SADIQ PUBLICH SCHOOL

DO THE RIGHT, FEAR NO MAN

Subject: Computer Science

Class: C1

Saturday, 16th November, 2024

Lesson: This is the about the Keyboards. Chapter No.3 (Hardware)

A. Inquiry:

In our last lesson, we learned about the Digital Camera. In this lesson, we will explore Keyboard. We learned that a keyboard is an input device that allows users to type letters, numbers, and symbols into a computer or other electronic device. Keyboards are typically arranged in a specific layout, such as QWERTY or DVORAK, and contain keys for individual letters, numbers, special characters, and specific functions. What are the main types of keyboards available for computer?

B. Information:

A keyboard is one of the primary input devices used with a computer. Like an electric typewriter, a keyboard is composed of buttons to create letters, numbers, and symbols, and perform additional functions. The following sections provide more in-depth information and answers to frequently asked questions about the keyboard.



What are the keyboard rows?

The horizontal rows of character keys in the **typing area** have specific names. For example, when placing your hands on the keyboard, they should be positioned over the home row keys. The keys below the home row are called the bottom row keys, and above the home row keys are the top row keys.

What Does Keyboard Mean?

A keyboard is a peripheral device that enables a user to input text into a computer or any other electronic machinery. A keyboard is an input device and is the most basic way for the user to communicate with a computer. This device is patterned after its predecessor, the typewriter, from which the keyboard inherited its layout, although the keys or letters are arranged to function as electronic switches. The keys include punctuation, alphanumeric and special keys like the Windows key and various multimedia keys, which have specific functions assigned to them.

There are different types of keyboard layouts manufactured based on the region and language used.

QWERTY: This layout is the most widely used and is named after the first six letters that appear on the top row. This layout is commonly manufactured today because of its popularity. It is so common across the world – even in countries that do not use the Latin-based alphabet for their language – that some people think that it is the only kind of keyboard there is.

AZERTY: This was developed in France as another variation to the QWERTY layout and is considered the standard French keyboard.

DVORAK: This layout was created to reduce finger movement when typing and produce faster typing speeds than QWERTY or AZERTY.

They are a relatively slow method of data entry and are also prone to errors; however keyboards are probably still the easiest way to enter text into a computer. Unfortunately, frequent use of these devices can lead to injuries, such as repetitive strain injury (RSI) in the hands and wrists.

Ergonomic keyboards can help to overcome this problem – these have the keys arranged differently. They are also designed to give more support to the wrists and hands when doing a lot of typing.

1. There is a membrane or circuit board at the base of the keys
2. the 'H' key is pressed and this completes a circuit as shown
3. The CPU in the computer can then determine which key has been pressed
4. The CPU refers to an index file to identify which character the key press represents
5. Each character on a keyboard has a corresponding ASCII value

Conclusion

Keyboard has always been the most essential input device required in a computer. They provide users a medium through which they can communicate or enter their commands in a computer. A user-friendly layout and various other features make keyboard a significant input device for computers and other electronic devices.

C. Please watch this video for the above topic.

<https://www.youtube.com/watch?v=gbZkKQBUrhc&t=5s>

D. Read your text book page from 92 to 93.

E. Synthesizing/absorbing the information.

- Write shortly narrated notes about Keyboard.

Practicing

- How does mechanical keyboard differ from a membrane keyboard?
- How does a keyboard work?
- What is a mechanical keyboard?
- How do ergonomic keyboards work?
- What is the history of the QWERTY layout?

Feedback:

Please if you have any question about the above topic, any word you didn't understand, anything all, please send an email to your teacher and he/she will reply as soon as possible.

Class	Teachers' Names	Teachers' Abbreviations	Teachers' Email Addresses	Instructions
C1A	Muhammad Junaid Fayyaz	MJF	Junaidfayyaz6@gmail.com	C1A students will send their home assignments to their subject teacher (MJF) for checking and getting feedback.
C1B	Muhammad Junaid Fayyaz	MJF	Junaidfayyaz6@gmail.com	C1B students will send their home assignments to their subject teacher (MJF) for checking and getting feedback.
C1C	Muhammad Ahsan Bhatti	AB	Ahsanbhati927@gmail.com	C1C students will send their home assignments to their subject teacher (AB) for checking and getting feedback.
C1GA	Seema Dawood	SSD	seema_ssd_sadiq@protonmail.com	C1GA students will send their home assignments to their subject teacher (SSD) for checking and getting feedback.
C1GB	Seema Dawood	SSD	seema_ssd_sadiq@protonmail.com	C1GB students will send their home assignments to their subject teacher (SSD) for checking and getting feedback.