C4

Principles of Computer System Operation

CHAPTER ASSIGNMENT

Name _____ Class _____ No. _____ Date _____

Answer every question in the space given. Show your working. You may use the chapter page to help you.

Questions from *Basic Science and Technology Textbook: Technology (Computing Science), Mathayom 2* (หนังสือเรียนรายวิชาพื้นฐาน วิทยาศาสตร์และเทคโนโลยี เทคโนโลยี (วิทยาการคำนวณ) ชั้นมัธยมศึกษาปีที่ ๒), 4th printing 2023, Institute for the Promotion of Teaching Science and Technology (IPST, สสวท.), Ministry of Education, translated into English, for classroom use.

Review before the lesson (ทบทวนความรู้ก่อนเรียน)

Try it (ลองทำดู)

(1) Give examples of how computers are used in daily life.

(2) Look at the computer you use. Which peripheral devices are connected to it?

(3) Which programs have you used, and how could you group them?

Think about it (ชวนคิด)

T1 4.1.2 Software (ซอฟต์แวร์)

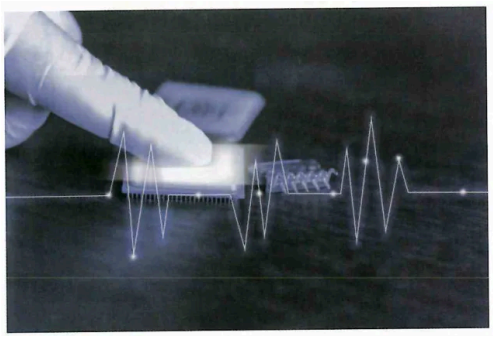
(1) Give examples of devices you know that use application software (ซอฟต์แวร์ประยุกต์).

(2) Knowing what computer hardware (ฮาร์ดแวร์) and software (ซอฟต์แวร์) can do, imagine what else a computer could do that would be useful to you.

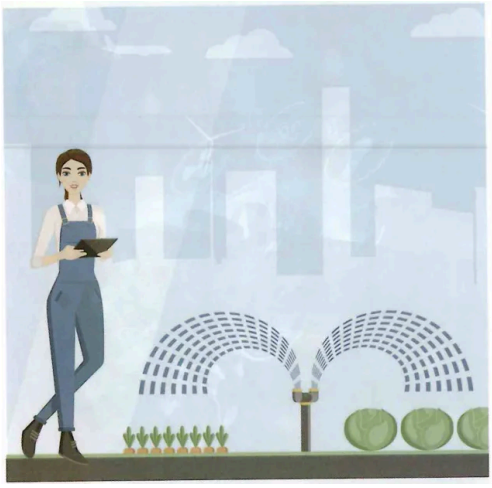
Activities from the chapter (กิจกรรม)

4.1 Activity 4.1 (กิจกรรมที่ 4.1)

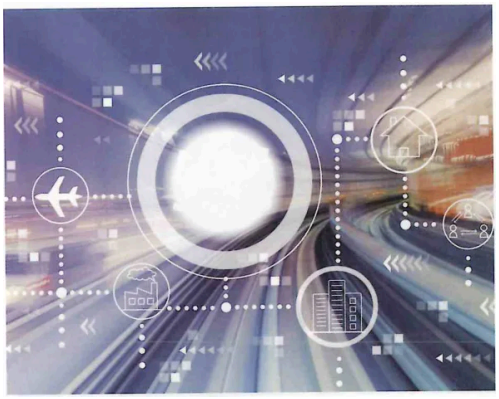
(1) What CPU is in the smartphone or computer you use? Find out what its features are.



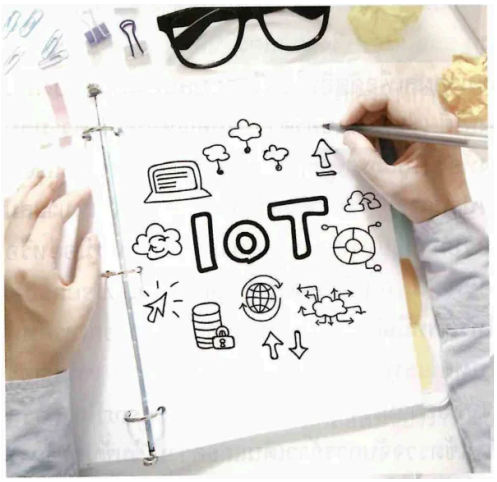
(2) What sensors does a smartphone have, and what does each one do?



(3) Give examples of devices that have sensors, and explain how they work.

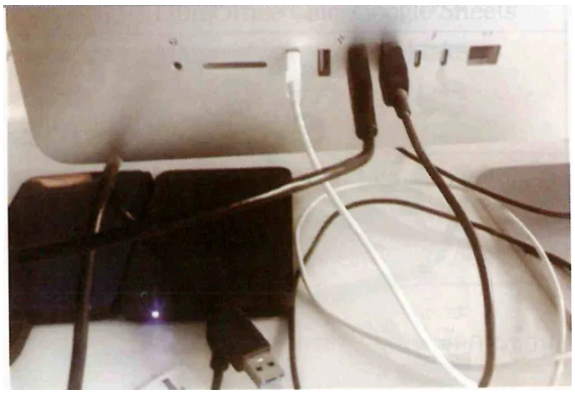


(4) Imagine how you could use an IoT system to help your family in daily life.



End-of-chapter activity (กิจกรรมท้ายบท)

Activity



(1) Describe the computer and peripheral devices you imagine could meet people's needs in the future.

(2) Design a program, as you imagine it, that would be useful to a lot of users.

End-of-chapter exercises (แบบฝึกหัดท้ายบท)

1. What impacts does using computers have?



2. How are memory (หน่วยความจำ) and storage (หน่วยจัดเก็บ) different?



3 How do the input unit (หน่วยรับเข้า), the CPU (หน่วยประมวลผลกลาง), the memory (หน่วยความจำ) and the output unit (หน่วยส่งออก) work together?



4 What are the advantages and disadvantages of using these devices?



(a) Wireless digital devices

(b) Touch screens (จอสัมผัส)

(c) LCD monitors (จอภาพแอลซีดี)

5 For each job, which digital devices and programs do you need, and why?



(a) Drawing a picture

(b) Keeping 10 films

(c) Printing a report to hand in to your teacher

End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/it/sem-2/chapter-4-computer-system-principles/