Topic 5.

Software: Software Basics: Categories and Programs. OS Basics. Applications and Apps: Mobile, Web, Local. Buying and Installing Software. Software Licenses. Software Piracy.

Software is the programs which carry out specific tasks. Also they can say that software can help us to communicate with a computer.

The two main categories are system software and application software. Operating system, device drivers, utilities, and programming language are system software. Music, graphics, mapping, finance, and entertainment classified as application software. Application software is designed to help people (accomplish)perform real-world tasks rather than system software is designed for computer-centric tasks.

Music software offers many ways to work with music such as downloading, playing music, creating playlists, transferring it to handheld devices, editing, cropping and mixing, streaming and identifying songs.

Mapping application is designed to help people get directions between two addresses. Google maps is the most extensive(обширный) mapping application. Location-based software is able to show the nearest to you shops, restaurants, ATMs, and other places.

Utility software is designed to help you monitor and configure(настроить) settings for your digital device. It focus on computer-centric tasks such as blocking viruses or diagnosing hard disk errors. Basic utilities is included with your device’s operating system.

PDF reader (Adobe reader) is an essential utility that displays documents stored in standard PDF files.

System utilities is a category of utility software which fix disk errors, repair corrupted files .Also it can display memory usage, available storage space, CPU usage etc.

A device driver is software that helps a peripheral device to connect with a computer.

Productive software or (office suites)(офисные пкеты) offers features that really help to get work done. This is the programs that typically include word processing, spreadsheet(электронная таблица), presentation, and database modules.(Microsoft Word, Microsoft Powerpoint, Excel )

Word processing packages give you the ability to create, spell-check(проверка орфографии), edit and format a document on the screen before you (commit if to paper)(зафиксировать на бумаге).

Spreadsheet software provides tools to create electronic spreadsheets.

**Database software**helps youenter,find, organize, update, and report information stored in a database.  Database software stores data as a series of records, which are composed(составленный) of fields that hold data. A record holds data for a single entity(объект, сущность, организация) – a person, place, thing, or event. A field holds one item of data relevant to a record.

A query(запрос) language provides a set of commands for locating and manipulating data in database.

A **query by example** (QBE) simply requires you to fill in a form with the type of data you want to locate.

Installation is the process of placing program into a computer.

Web application is software that is accessed with a Web browser. Their advantage is that much of the program code runs on a remote computer connected to the Internet or other computer network.

Advantages of Web apps:

1. All that your device must have are web browser and Internet connection.

2. You can access data even when you are away from your main computer because data is located on the app’s web site.

3.Allways online.

Disadvantages of Web apps:

1. Less complex than desktop apps.
2. It really depends on the site hosting.
3. Your data is more vulnerable(уязвима) because it is out of your control.

Mobile app is a application for handheld devices like smartphones or tablets.( In contrast to)(в отличии от) web application, mobile apps run from the handheld devices, so they have to be downloaded and installed.

The main component of a software package is an **executable file** designed( to be started)(запускать) by users or automatically launched by the operating system. Additional files contain support modules called “application extensions(расширения)”, data files, and text files.

Portable software is designed to run from removable storage(сЪемное хранилище) such as CD or USB. You shouldn’t install program files. All you have to do is to put removable device into computer.

**Commercial software** is usually sold in (retail stores)(магазины розничной торговли) or at Web sites. But actually(фактически) we just buy a right to use this app.

Demoware software distribute(распространять) for free but it is limited until you pay for it.

**Shareware(условно бесплатное)** is copyrighted software marketed under a try-before-you-buy policy. Until (trial period)(пробный период) it is a fully-functioning software, but than you should to (pay fee)(платить пошлину) to continue use it.

Freeware is software that is available for free.

**Open source software** makes uncompiled program instructions – the source code – available to programmers who want to modify and improve the software. (Linux)

A copyright is a form of legal protection that grants the author right to copy, distribute, sell, and modify his application.

Software license is a legal contract that defines the ways of usage computer program.

Security software is a protection of computer from various forms of destructive software and unauthorized intrusions. Types of security software are antivirus, antiSPYware(антишпионское), anti-spam, and firewalls.

Malware or malicious(вредоносное\злонамеренное) software referred to any computer program designed to enter secretly, gain access(получить доступ) to data or even disrupt(разрушать) normal processing operations. There are many kinds of malware such as viruses, worms, Trojans, bots, and spyware.

All viruses have common. All of them can reproduce itself.

Rootkit refers to software tools used to conceal(скрывать кэнсЫл) malware and backdoors, that have been installed.

(Security suite)(пакет безопасности) is several security modules to protect against malware, unauthorized access, and spam. It can also include Wi-Fi detection and parental control of children’s Internet usage. Security suite has several advantages like low price and user-friendly interface.

Antivirus software is a type of utility software that looks for and eradicates(искореняет эрАдыкэйтс) malware.

Virus signature is a section of program code thanks to whom antivirus can determine(define) virus.(like human’s fingerprint )