SOFTWARE DEVELOPMENT

Topic 5

Software

SYSTEM SOFTWARE

APPLICATION SOFTWARE

Apps or **applications**

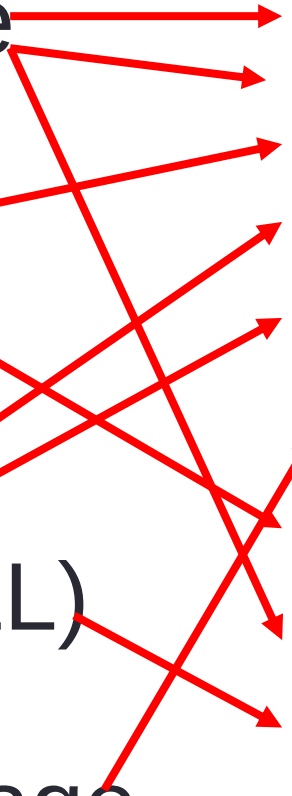
- built for a single purpose and performs a sole function for users,
- offer services in areas like automation, data processing, and integration,
- specifically designed to run on mobiles and tablets, but can also run on desktops, provided the OS supports them,
- some examples include Microsoft Office, Adobe Photoshop, VLC Player, etc.
- popular examples of apps are OpenOffice, Photoshop, WhatsApp, etc.
- primarily intended to perform a variety of functions.

PROGRAMMING, PAGE 39

Use the information from page 39 in your books to find answers and do the exercises that follow:

Match (Part A)

- Machine Code
- Assembly Language
- High-Level Language (HLL)
- Markup language



1. Uses binary code
2. Is machine-dependent
3. A low-level language
4. Java is an example of it
5. Uses English-like language
6. is used to create web documents
7. Is converted to machine code by an assembler
8. Is a low-level language
9. Is converted into a machine code by a compiler

Arrange the steps in the right order (Part B)

- Software deployment **(5)**
- Maintenance / post-deployment **(6)**
- Coding and implementation **(3)**
- Software testing **(4)**
- Planning, gathering and analysis of requirements **(1)**
- Software design **(2)**

LISTENING COMPREHENSION

How Software is Made

Before you listen, fill in the blanks.

programming languages **compiling** **software**
compile **run the program** **ones and zeros**
source code **binary** **human readable**

A computer program, otherwise known as _____, is made up of _____. This is known as _____ and it is the only thing the computer understands. Writing the binary yourself would be slow, tedious, and take way too long. Instead we'll use something called _____. These are the instructions to the computer that is meant to be _____. Source code can be written in one of many different _____. In order for the computer to actually _____ the program, the source code must be turned into binary. This process is called _____. If there are any mistakes in the source code, the _____ will fail and you won't be able to run the software.

Listen to

https://www.youtube.com/watch?v=bWdeGTJxMQc&ab_channel=JaredOwen

to check your answers.

- A computer program, otherwise known as **SOFTWARE**, is made up of **ONES AND ZEROS**. This is known as **BINARY** and it is the only thing the computer understands. Writing the binary yourself would be slow, tedious, and take way too long. Instead we'll use something called **SOURCE CODE**. These are the instructions to the computer that is meant to be **HUMAN READABLE**. Source code can be written in one of many different **PROGRAMMING LANGUAGES**. In order for the computer to actually **RUN** the program, the source code must be turned into binary. This process is called **COMPILING**. If there are any mistakes in the source code, the **COMPILE** will fail and you won't be able to run the software.

Listen to the rest of the video and answer the questions:

- What is revision control?
- Why does software have periodical updates?
- What types of software are there and what are the differences between them?

LINUX

- what is it?
- author
- year of release
- programming languages used
- source model
- etc.

Linux

- **Exercise A, page 41**: Skim the text to answer the questions.
- **Exercise B, part 1:** Match
- **Exercise B, part 2:** True / False

Read again and find synonyms to the following words in the text:

Paragraph 1:

- piece, item, unit = component
- marvel = wonder
- typical instance = textbook example
- adequately = sufficiently
- potent, powerful = robust

Paragraph 2:

- weaknesses, imperfections = shortcomings
- help = aid
- portion, share = allocation
- operating = running

Find synonyms to the following words in the text:

Paragraph 3:

- exorbitant = eye-watering
- adapt, adjust = modify
- problems = bugs
- income, profit = revenue

Paragraph 4 & 5:

- astonishing = astounding
- completely, fully = utterly
- a huge amount = heavily
- make larger, longer = extend

Find synonyms to the following words in the text:

Paragraph 6 & 7

- deliberately = purposefully
- services = utilities
- translators = interpreters
- already, formerly = hitherto
- apply = implement

Paragraph 8

- To create a new version of (an application program) to run on a different hardware platform = To port

  (adv + adj) widely ported

Word formation exercise

1. Other programs include kernels, **ASSEMBLERS**(ASSEMBLE), command-line interpreters and **REVISION** (REVISE) control software.
2. He spent weeks **DEBUGGING** (BUG) the program.
3. The website is **ACCESSIBLE** (ACCESS) to all users.
4. This is **PROPRIETARY** (PROPERTY) software, and you have no right to copy it without a license from the owner.
5. There are thorough **MAINTENANCE**(MAINTAIN) checks on new software before its release.
6. The best speech **RECOGNITION** (RECOGNIZE) software **APPLICATIONS/APPS**(APPLY) still can't recognize speech with 100% accuracy.
7. Mobile phones can be used to access voice-**EQUIPPED** (EQUIP) websites.