Al-Mustaqbal University
Department of Communications
Techniques Engineering
Class one - first semester
Subject: English language
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Lecture 2: PART 1 – Programming and Software Terms. Unit 3 – All About You

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PART 1 – Programming and Software Terms

1- Program

A program is a set of instructions that tells the computer what to do. It can be a game, a mobile app, or any software. Without a program, a computer cannot work.

Example: **This program opens files.**

2- Code

Code is the language we write to create programs. Computers understand programming languages, not human languages. Code tells the computer how to work.

Example: **I write code on the computer.**

3- Algorithm

An algorithm is a way of thinking about a solution step by step. We plan the solution before writing the code. It is like a recipe for solving a problem.

Example: The algorithm has three steps.

4- Function

A function is a small part of a program that does a specific job. Functions help organize the program and make it easier to understand. Each function performs one task.

Example: This function adds two numbers.

5- Variable

A variable is a place where we store information. The value of a variable can change while the program is running. It stores numbers, words, or other data.

Example: The variable stores a number.

6- Error

An error is a mistake in the code that causes the program to work incorrectly. Errors are common and happen to every programmer. A program with an error may stop working or give wrong results.

Example: The program has an error.

7- Debugging

Debugging is the process of finding and fixing errors in a program. Programmers check the code to see what is wrong and correct it. Debugging helps the program work properly.

Example: Debugging fixes the problem.

8- Application (App)

An application is a program made for users. It helps people do tasks easily, like chatting or calculating. Most apps run on computers or mobile phones.

Example: This app works on my phone.

9- Operating System

An operating system is the main program of a computer or phone. It controls the hardware and runs other programs. include Windows, Android, and iOS.

Example: Windows is an operating system.

10- Artificial Intelligence (AI)

Artificial Intelligence is when machines act in a smart way like humans. AI allows computers to learn, think, and make decisions. It is used in many modern technologies.

Example: AI helps people learn.

Q1/ Multiple Choice Questions

1) What is a program?

A. A computer screen

B. A set of instructions for the computer

C. A hardware device

D. An operating system

2) Code is used to:

A. Turn off the computer

B. Create programs

C. Store hardware

D. Clean the computer

3) An algorithm is:

A. A computer error

B. A programming language

C. Step-by-step plan to solve a problem

D. A type of application

4) A function in a program:

A. Does many jobs at the same time

B. Is the whole program

C. Does one specific task

D. Is a computer virus

5) Which one is an operating system?

A. Microsoft Word

B. Google Chrome

C. Windows

D. Calculator

Q2/ True or False

1) A variable can store numbers or words.

True ☐   False ☐

2) An error helps the program work correctly.

True ☐   False ☐

3) Debugging means finding and fixing errors in a program.

True ☐   False ☐

4) An application is made only for programmers.

True ☐   False ☐

5) Artificial Intelligence allows computers to think and learn.

True ☐   False ☐

Answers Q1/ Multiple Choices

1. B

2. B

3. C

4. C

5. C

Q2/ True / False

1. True

2. False

3. True

4. False

5. True

Unit 3 – All About You

This unit helps students talk about themselves, jobs, personal information, and use the verb am / is / are.

It also teaches students how to make negatives and questions and use short social expressions.

1- Jobs vocabulary:

Students first learn the names of different jobs. They must match each job with the correct picture.

English job	Arabic meaning
a doctor	طبيب
a nurse	ممرضة
a student	طالب
a teacher	معلم _
a shop assistant	موظف متجر / بائع
a bus driver	سائق باص
a businessman	رجل أعمال

a police officer	شرطي
a builder	عامل بناء

What's his job ?

He is a bus driver.

What's her job?

She is a nurse.

2- Grammar – The verb (to be) (am / is / are)

The verb to be changed depending on the subject pronoun.

Subject Pronoun	Auxiliary Verb	Example Sentence
I	**am**	**I am a student.**
You	**are**	**You are a teacher.**
He	**is**	**He is a doctor.**

She	is	She is a nurse.
It	is	It is a shop.
We	are	We are students.
They	are	They are businessmen.

3- Negatives – Using not

1) Negative Form

To make a sentence negative with am / is / are, we add not after the verb.

Structure:

am / is / are + not

Positive	Negative	Example Meaning
He is a student.	He isn't a student.	He is not a student.
She is a teacher.	She isn't a teacher.	She is not a teacher.

I am a doctor.	I'm not a doctor.	I am not a doctor.
They are builders.	They aren't builders.	They are not builders.

Note: Short negative forms:

- I am not → I'm not

- is not → isn't

- are not → aren't

4- Questions – Yes/No Questions with (to be)

To form a question, put the verb (am , is , are) at the beginning of the sentence.

Question	Short Answer
Is he a teacher?	Yes, he is. / No, he isn't.
Are you a student?	Yes, I am. / No, I'm not.
Is she a nurse?	Yes, she is. / No, she isn't.

Examples:

- Are you from Scotland?

  ✔️ Yes, I am.

  ❌ No, I'm not.

- Are they from Ireland?

  ✔️ Yes, they are.

  ❌ No, they aren't.

5- Personal Information (Questions and Answers).

Here are the most important questions that help us write a personal profile and personal information.

1. What is your first name?

2. What is your surname / last name?

3. How old are you?

4. Where do you live? / What is your address?

5. Which country are you from?

6. Are you married?
7. What is your job?

8. What do you like to do?

Example; 1

Personal Profile

First Name: Ellie

Surname / last name Green

Country: England

Address: 29 Victoria Road, Birmingham

Phone Number: 07700 955031

Age: 20

Job: Student

Married: No

Hobbies / Interests: I like reading books.

Example 2

Personal Profile

First Name: Sara

Surname / Last Name: Ahmed

Country: Iraq

Age: 22

Address: 40 Street, Babil.

Married: No

Job: a student

Hobbies / Interests: listening to music, browsing the internet and travelling.

Hi! My name is Sara Ahmed. I am 22 years old and I live at 40 Street, Babil, Iraq. I am not married. I am a first-year student of the Artificial Intelligence Department College of Engineering Technologies at Al-Mustaqbal University. I like reading books, listening to music, browsing the internet and travelling.

6- Reading and listening

We are in Las Vegas !

METRO 5 – ON TOUR IN LAS VEGAS

This is the boy band Metro 5, the winners of The Audition. They come from different countries. Paul and Donny McNab are from Ireland, they are brothers. Bo Olsson is from Sweden. Ronan Wilson is from Australia, and Edson Melo is from Brazil.

Now, they are on tour in the United States.

Metro 5: Hi! We're in Las Vegas.

Interviewer: Hi, guys, how are you?

Metro 5: We're all fine. It's fantastic here!

Interviewer: Are you tired?

Metro 5: No, we aren't. We're very happy and excited.

Interviewer: Great! Good luck with the tour!

- We're _____ we are
- We aren't _____ we are not.

7- social expressions

1. A: I'm <u>sorry</u>.

B: That's <u>OK</u>.

2. C: A coffee, <u>please</u>.

D: That's £1.20.

C: <u>Thanks</u> very much.

3. E: <u>Excuse</u> me! Where's the station?

F: It's <u>over there.</u>

E: Thanks <u>a lot</u>.

4. G: Thank you <u>very much.</u>

I: That's <u>very kind.</u>

H: That's <u>OK</u>.

5. I: ¿Qué hora es?

J: I'm <u>sorry</u>. I <u>don't understand.</u>

6. K: <u>Excuse</u> me! Where's the town centre?

L: I'm <u>sorry</u>. I <u>don't know.</u>

The End

Thanks for your attention