INGLÉS TÉCNICO

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TECNÓLOGO EN ANÁLISIS Y DESARROLLO DE SOFTWARE
CENTRO LA INDUSTRIA LA EMPRESA Y LOS SERVICIOS
REGIONAL - HUILA
2024

1.Match the software engineering technician-related terms on the left with their correct definitions on the right. Write the letter of the correct definition next to each term.

Definitions:

A. A process of finding and fixing errors and bugs in software code.

B. An environment that provides tools for coding, debugging, and building software.

C. A collection of software code and related files, often managed using a version control system.

D. An organized system for managing different versions of software code and tracking changes over time.

E. An approach to software development that emphasizes flexibility, collaboration, and iterative progress.

F. An interface that allows different software components to communicate with each other.

G. Writing and executing tests to ensure individual parts of a software application work correctly.

H. The process of moving a software application from development to a live environment.

I. A structured storage system that holds data and allows for efficient retrieval and manipulation.

J. Testing carried out to make sure that new code changes don't adversely affect existing functionalities.

K. A systematic examination of software code by peers to identify and correct mistakes and improve quality.

L. Written materials that explain how software works, including user guides and technical references.

Matching:

1. Version Control System (VCS) - D

2. Debugging - A

3. IDE (Integrated Development Environment) - B

4. API (Application Programming Interface) - F

5. Repository - C

6. Agile - E

7. Unit Testing - G

8. Deployment - H

9. Database - I

10. Regression Testing - J

11. Code Review - K

12. Documentation - L

Present Perfect Tense in Software Technician Vocabulary

Instructions: Fill in the blanks with the correct form of the verbs in the present perfect tense. Use the vocabulary provided to help you.

Vocabulary:

1 Debug = Debugged

5 Test = Tested

9 Design = Designed

2 Install = Installed

6 Develop = Developed

10 Maintain = Maintained

3 Update = Updated

7 Deploy = Deployed

4 Code = Coded

8 Troubleshoot = Troubleshooted

Exercise 1: Complete the sentences with the present perfect tense of the verbs in the vocabulary.

Our team __have 6__ a new feature for the software last week.

The technicians __have 10__ the system regularly to ensure optimal performance.

I __have 1__ several bugs in the program since I started working on it.

The company ___has 2___ the latest version of the software yesterday.

We ___have 5___ the new module, and it is ready for user testing.

The software engineer ___has 4___ the application for the past two months.

They ___have 3___ the network to enhance security measures.

The team ___have 8___ the coding issues and now the program runs smoothly.

She ___has 9___ the software on multiple devices to check for compatibility.

The IT department ___has 7___ the server to improve its efficiency.

2.Instructions: Read the text below and fill in the blanks with the correct form of the verbs in the present perfect tense from the vocabulary provided.

Vocabulary:

7 Debug

2 Install

11 Update

5 Code

8 Test

1 Develop

10 Deploy

12 Troubleshoot

4 Design

3 Maintain

Text:

In the fast-paced world of software development, our team of skilled technicians 1__have developed__several innovative solutions over the past year. We 2___have installed___ a robust application that not only meets but exceeds the expectations of our users. Our journey 3 ___maintain___with the initial phase, where we carefully 4__designed___the software architecture and meticulously 5____coded____ each module.

Once the design was complete, the development team 6_developed_tirelessly to bring the vision to life. They 7___debugged__ the code iteratively, addressing issues as they arose. Our quality assurance team 8__has tested__ the software thoroughly, ensuring that it 9__Installed___seamlessly on various platforms.

The deployment process 10__deployed__ smoothly, thanks to the coordinated efforts of our technicians. Since then, our team continuously 11 have updated_ the software, releasing periodic updates to enhance performance and address any emerging challenges. As we move forward, we are committed to staying at the forefront of technological advancements, ready to 12 troubleshoot any obstacles that may come our way.

Worksheet: Present Perfect vs. Past Simple

Name: _____ Date: _____

Instructions:

1.Fill in the blanks with the appropriate form of the verbs in brackets. Choose either present perfect or past simple tense.

I _Completed_ (complete) the coding assignment yesterday.

Sarah _Finished_ (finish) her project yet?

They _started_ (start) working on the new software last week.

We _not received_ (not / receive) any feedback from the client so far.

He _already written_ (already / write) the code for the program.

The team _worked_ (work) on this project for two months.

Maria _just updated_ (just / update) the software to the latest version.

The developers _have fixed_ (fix) all the bugs in the previous release.

By the time we arrived, the engineers _have already text_ (already / test) the software extensively.

Our company _relased_ (release) several updates this year.

2.Fill in the blanks with the appropriate software tool or platform mentioned in the brackets.

| Git - Eclipse - GitHub - Django - npm |
| Trello - Docker- MySQL - Jenkins - Amazon Web Services / AWS |

Git is a version control system widely used in software development.

Eclipse is an integrated development environment (IDE) primarily used for Java programming.

Trello is a popular project management tool known for its boards, lists, and cards.

Docker is a containerization platform that allows developers to package, distribute, and manage applications.

MySQL is an open-source relational database management system.

Github is a continuous integration and continuous delivery (CI/CD) platform used for automating software development processes.

___AWS___ is a cloud computing platform that offers a wide range of services including computing power, storage, and databases.

___Django___ is a web application framework for building dynamic web applications using the Python programming language.

___Npm___ is a widely-used task runner and build tool for JavaScript projects.

___Github___ is a collaborative version control platform for software development Projects.

3. Fill in the blanks with the appropriate form of the verbs in brackets. Choose either the past simple or present perfect tense.

We _**released**_ (release) the latest version of our application last week.

John _**completed**_ (complete) his software engineering degree two years ago.

The team _**has already**_ (already / fix) the critical bugs in the code.

Mary _**attened**_ (attend) the software conference in San Francisco last month.

By the time the client arrived, we _**had finished**_ (finish) the presentation.

The developers _**worked**_ (work) on this project for six months before they completed it.

Sarah _**has not received**_ (not / receive) any feedback on her proposal yet.

The company _**has invested**_ (invest) a significant amount in upgrading their software infrastructure.

Our team _**has not deployed**_ (not / deploy) the new feature to production servers yet.

He _**has just uploaded**_ (just / upload) the latest version of the application to the testing environment.

4. Fill in the blanks with the appropriate form of the verbs in brackets. Choose either the past simple or present perfect tense.

Text:

Software development _**has become**_ (become) increasingly important in our modern world. Over the past decade, there _**have been**_ (be) significant advancements in programming languages and tools. For example, Java _**has remained**_ (remain) one of the most widely used languages in software development for many years. However, recently, there _**has been**_ (be) a shift towards newer languages like Python, which _**has gained**_ (gain) popularity due to its simplicity and versatility.

Software Technician Worksheet: Conditional Type Zero and Vocabulary

Instructions:

Fill in the blanks with the correct form of the verb in Conditional Type Zero (present simple in both clauses).

Use the vocabulary terms provided in the word bank to complete the sentences.

Word Bank:

Technician	Troubleshooting	Software
Maintenance	Calibration	

Part 1: Conditional Type Zero

If the ___Technician___ encounters a bug, they immediately begin ___Troubleshooting___ it.

When a problem arises, the ___Technician___ quickly ___Troubleshooting___ the issue and resolves it.

If the software crashes, the ___Maintenance___ usually ___Calibration___ an error report.

When the system runs smoothly, the ___Sofware___ rarely ___Troubleshooting___ any significant problems.

If the code is well-written, the ___Sofware___ seldom ___Maintenance___ errors during execution.

Part 2: Vocabulary Matching

Match the vocabulary terms from the word bank with their corresponding definitions:

1. A person trained to perform technical tasks, especially in the operation and maintenance of software systems. ___Technician___
2. The process of keeping software systems in good condition by checking and updating them regularly. ___Maintenance___
3. The act of finding and fixing problems in software or computer systems. ___Troubleshooting___
4. The process of adjusting or standardizing software systems to ensure proper function. ___Calibration___
5. The programs and operating information used by a computer. ___Sofware___

Part 3: Complete the Sentences

1. Complete the sentences by using the correct form of the verb in the Conditional Type Zero (present simple in both clauses).

Remember that Conditional Type Zero is used for real and general situations.

If the user clicks the button, the application ___responds___ (respond) immediately.

When the program crashes, it ___displays___ (display) an error message.

If the input is correct, the system ___proceeds___ (proceed) to the next step.

When the file is saved, it ___appears___ (appear) in the designated folder.

If the internet connection is lost, the download process ___stops___ (stop) automatically.

Conditional Statements Worksheet

1.Determine whether the scenario describes a situation that matches conditional type zero or conditional type one.

Answer the questions or complete the tasks provided for each scenario.

Scenario 1:

You are developing a weather application. You want to display a message if the current temperature is below 10 degrees Celsius.

Type of Conditional Statement: _____ Zero _____

Questions:

What is the condition for this statement to execute?

Write the code snippet in your preferred programming language that implements this scenario.

Scenario 2:

You are creating a login system for a website. You want to display a welcome message if the user enters the correct username and password.

Type of Conditional Statement: _____ Zero _____

Questions:

What is the condition for this statement to execute?

Write the code snippet in your preferred programming language that implements this scenario.

Scenario 3:

You are developing a traffic monitoring system. You want to alert the driver if the current speed exceeds the speed limit of 60 km/h.

Type of Conditional Statement: _____ Zero _____

Questions:

What is the condition for this statement to execute?

Write the code snippet in your preferred programming language that implements this scenario.

Scenario 4:

You are designing a game. You want to give the player a bonus if their score reaches 1000 points.

Type of Conditional Statement: _____ Zero _____

Questions:

What is the condition for this statement to execute?

Write the code snippet in your preferred programming language that implements this scenario.

Scenario 5:

You are building a system to control access to a secure facility. You want to deny entry if the person does not have the correct access card.

Type of Conditional Statement: _____Zero_____

Questions:

What is the condition for this statement to execute?

Write the code snippet in your preferred programming language that implements this scenario.

Scenario 6:

You are developing a notification system for a messaging app. You want to notify the user if they have unread messages.

Type of Conditional Statement: _____Zero_____

Questions:

What is the condition for this statement to execute?

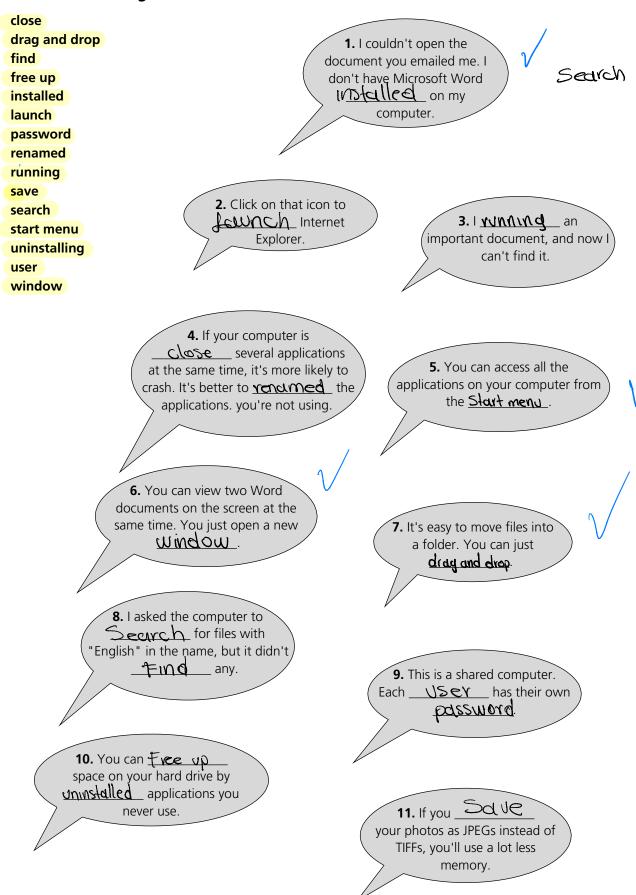Write the code snippet in your preferred programming language that implements this scenario.

2.Read the incomplete text below.Fill in the blanks with the appropriate conditional type zero or conditional type one statements.

Use your understanding of conditional statements to ensure logical completion of the text.

Text:

As a software developer, it is essential to understand conditional statements to control the flow of our programs effectively. Conditional statements allow us to execute certain blocks of code based on specific conditions. Let's explore some scenarios where we can apply conditional statements:

In a weather application, we can use a conditional type zero statement to display a message if the current temperature __Reaches__ (reach) a certain threshold. For example, if the temperature __Drops__ (drop) below 10 degrees Celsius, we can display a warning about cold weather.

When designing a login system for a website, we can implement a conditional type one statement to check if the user __Enters__ (enter) the correct username and password. If the credentials __Match__ (match) what is stored in the database, we can grant access to the user.

For a traffic monitoring system, we can utilize a conditional type zero statement to alert drivers if their speed __Exceeds__ (exceed) the legal limit. If the speed __is__ (be) above 60 km/h, a warning message __Display__ (display) on the dashboard.

In a game, we can incorporate a conditional type one statement to give players a reward if they __Achieve__ (achieve) a certain score milestone. For instance, if the player's score __Reaches__ (reach) 1000 points, they __Receive__ (receive) a bonus item.

When developing a secure access system, we can employ a conditional type zero statement to deny entry if the user __Presents__ (present) an invalid access card. If the card _____ (not match) the database records, access __is__ (be) denied. __doesn't match__

In a messaging app, we can create a conditional type one statement to notify users if they __Have__ (have) unread messages. If there __are__ (be) unread messages in their inbox, a notification __Appears__ (appear) on their screen.

2.1 Software: the basics

A. Choose the correct word to fill the spaces.

1. Turn on your computer. It will usually take a few minutes to _____.
   a. boot itself   **b.** boot up   **c.** get booted

2. Windows XP, Macintosh OSX and Linux are _____.
   a. operating systems   **b.** operating tools   **c.** operators

3. On my computer, I have a picture of my cat as the _____.
   a. desktop background   **b.** desktop picture   **c.** desktop scene

4. Microsoft Word, Adobe Acrobat and CorelDraw are programs or _____.
   a. applicators   **b.** appliers   **c.** applications

5. To open Microsoft Word, click on the _____.
   a. picture   **b.** symbol   **c.** icon

6. I keep all my digital photos in a _____ called "Photos".
   a. folder   **b.** packet   **c.** box

7. Is it possible to open Microsoft Excel _____ in Word?
   a. texts   **b.** files   **c.** pages

8. In Microsoft Word, to start typing a new letter, open a new _____.
   a. document   **b.** page   **c.** paper

9. When you _____ a document, it's sent to the recycle bin.
   a. destroy   **b.** erase   **c.** delete

10. Deleted documents stay in the recycle bin until you _____ it.
    a. wash   **b.** empty   **c.** clean

11. In Windows, the icon is just a _____ to the application. If you delete the icon, the application will still be on your computer.
    a. connector   **b.** shortcut   **c.** link

12. If the computer crashes, you can try pressing the _____ button.
    a. restart   **b.** recommence   **c.** replay

13. When I've finished using my computer, I always _____.
    a. close it down   **b.** shut it down   **c.** shut it off

14. If I leave my computer on without using it, after a while it goes into _____ mode.
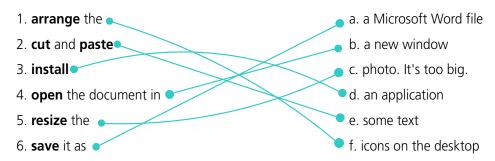   **a.** stand down   **b.** waiting   **c.** standby

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B. Insert the missing words.

close
drag and drop
find
free up
installed
launch
password
renamed
running
save
search
start menu
uninstalling
user
window

1. I couldn't open the document you emailed me. I don't have Microsoft Word *installed* on my computer.

Search

2. Click on that icon to *launch* Internet Explorer.

3. I *running* an important document, and now I can't find it.

4. If your computer is *close* several applications at the same time, it's more likely to crash. It's better to *renamed* the applications. you're not using.

5. You can access all the applications on your computer from the *Start menu*.

6. You can view two Word documents on the screen at the same time. You just open a new *window*.

7. It's easy to move files into a folder. You can just *drag and drop*.

8. I asked the computer to *Search* for files with "English" in the name, but it didn't *find* any.

9. This is a shared computer. Each *user* has their own *password*.

10. You can *free up* space on your hard drive by *uninstalled* applications you never use.

11. If you *save* your photos as JPEGs instead of TIFFs, you'll use a lot less memory.

2.2 Using software: useful verbs

Match the words on the left with the words on the right.

Set 1

1. **arrange** the
2. **cut** and **paste**
3. **install**
4. **open** the document in
5. **resize** the
6. **save** it as

a. a Microsoft Word file
b. a new window
c. photo. It's too big.
d. an application
e. some text
f. icons on the desktop

Set 2

1. **copy** the
2. **customize** your
3. **launch**
4. **search**
5. **send** the file
6. **use** the

a. for a lost file
b. a program
c. "search" function
d. text into a new document
e. to a different folder
f. desktop

Set 3

1. accidentally **deleted** an
2. **exit**
3. **click** on that button
4. **pull down** a
5. **replace** the existing
6. **view**

a. menu
b. important file
c. an application
d. as a web page
e. on the task bar
f. file

Set 4

1. **close down** an
2. **log off**
3. **look in**
4. **put** the file
5. **run** a
6. **wipe** the

a. after a session
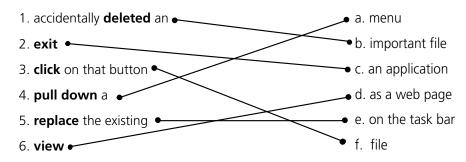b. all folders
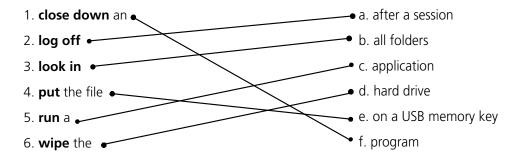c. application
d. hard drive
e. on a USB memory key
f. program

Worksheet Title: Understanding Conditional Type Zero and Type One in Software Development

1.Instructions:

Read each sentence carefully.

Determine whether the sentence describes a situation that fits Conditional Type Zero or Conditional Type One.

Exercise 1: Identify the Conditional Type

If the user enters the wrong password, the system denies access.

Conditional Type: _____Zero_____

When the temperature exceeds the threshold, the cooling system activates.

Conditional Type: _____Zero_____

If the database connection fails, the application displays an error message.

Conditional Type: _____Zero_____

When the user clicks the "Submit" button, the form data is sent to the server.

Conditional Type: _____Zero_____

If the file is corrupted, the backup system restores the previous version automatically.

Conditional Type: _____Z_____
                        e
                        r
Exercise 2: Create Your Own Sentences
                        o
Create three sentences of your own using Conditional Type Zero and three sentences using Conditional Type One. Write your sentences below.

1.Conditional Type Zero:

- If you heat water to 100 degrees Celsius, it boils.
- When you press the power button, the computer turns on.
- If you freeze water, it turns into ice.

2.Conditional Type One:

- If it rains tomorrow, we will cancel the picnic.
- If you finish your homework, you can watch TV.
- If they leave now, they will catch the last bus.

Second Conditional Worksheet

Part 1: Understanding the Second Conditional

The second conditional is used to talk about hypothetical or unreal situations in the present or future. It is often used to express a situation that is unlikely to happen or is purely imaginary.

Structure:

If + past simple, ... would + base verb

Examples:

If I won the lottery, I would travel around the world.

If she studied harder, she would get better grades.

Part 2: Complete the Sentences

Complete the following sentences using the second conditional:

1. If I _were_ (be) the president, I would (change) the education system.
2. If we _had_ (have) more time, we would (learn) another programming language.
3. If they practiced (practice) more, they would (be) excellent software developers.
4. If she _knew_ (know) how to code, she would (create) her own app.
5. If he worked (work) less, he would (have) more free time.

Part 3: Forming Questions

Form questions using the second conditional. Use the prompts provided.

Example:

What / you / do / if / you / be / a millionaire?

What would you do if you were a millionaire?   If I were a millionaire I would have a livestock farm, a cafe, I would travel and make investments

How / you / feel / if / you / fail / the exam?

How would you feel if you failed the exam?   If I didn't pass an exam I would feel sad

Where / you / go / if / you / can / travel / anywhere in the world?

Where would you go if you can traveled anywhere in he world?   If I coulʾ travel anywhere in the world I would go to Korea

What / you / do / if / you / find / a bug in your code / just before the deadline?

What would you do if you found a bug in your code just before the deadline?   If I found a bug in my code right before the deadline I would stay up late until I fixed the bug.

Who / you / call / if / you / need / help with your project?

Who would you call if you needed help with your project ?   If I needed help with my project I would call the instructor.

What / happen / if / the internet / go down / for a week?

What would happen if the internet went down for a week?   If the internet was cut off for a week I would buy a recharge that had internet access

Part 4: Correct the Mistakes

Identify and correct the mistakes in the following sentences:

1. If she will know how to code, she would create amazing websites.
2. If I would have a lot of money, I will buy a new computer.
3. If we have more time, we would finish the project.
4. If he works harder, he would get a promotion.
5. If they would study more, they will pass the test.

1. If she knew how to code, she would create amazing websites.
2. If I had a lot of money, I would buy a new computer.
3. If we had more time, we would finish the project.
4. If he worked harder, he would get a promotion.
5. If they studied more, they would pass the test.

Part 5: Writing Practice

Write five sentences of your own using the second conditional. Think about hypothetical situations related to your studies or future career in software development.

- If I were a software developer, I would create an app that helps people learn new lan. guages.
- If we had more time, we would develop a new programming language that is easier to learn and use.
- If she knew how to code, she would create a website for her small business.
- If she had more experience with software development, he would apply for a job at a tech startup.
- If they studied computer science, they would be well-prepared for a career in software development.