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**Topic: Programming your future, or rather your present, isn't it?**

**INTRODUCTION**

**Why is programming important for students?** **(Gerardo)**

Learning to program teaches people to think, encourages critical thinking, logic and creativity. In addition, introducing students early to computer science enables them to better understand the world and acquire the 21st century skills they need to take advantage of increasingly digital-oriented job opportunities.

What is a programming language?

The programming languages are the tools we use to write instructions for computers to follow. Computers “think” in binary — strings of 1s and 0s. Programming languages allow us to translate the 1s and 0s into something that humans can understand and write. A programming language is made up of a series of symbols that serves as a bridge that allow humans to translate our thoughts into instructions computers can understand.

Programming background:

The first discovery of something related to programming was made in 1801 by Joseph Marie Jacquard and his programmable loom. This gave birth to the first programming system, integrated in a loom that read the code entered and automated the processes.

However, programming as we know it was born in 1957 with the well-known scientist John W. Backus, when he created the first high-level programming language, Fortran. Its purpose was to clarify and facilitate understanding (in the face of the erratic and indecipherable languages that existed at the time), bringing it closer to a normal mathematical notation.

Later, in 1964, BASIC was born, a family of programming languages that emerged as a support tool focused on teaching but that ended up acquiring a surprising relevance, to the point that, to this day, it is still used in programs such as "Gambas" or "Visual Basic".

In 1970, Pascal was created, which, like BASIC, was born as a teaching tool that was soon used for application development**.**

In 1972 came the C language, and the rest is history. C was created by Dennis Ritchie as a basic programming language, of a not very complex level, which would soon acquire a vital relevance, until it ended up becoming one of the most used languages nowadays.

In 1979, another historical milestone for programming took place: the C++ language was created with the idea of adding mechanisms for manipulating objects to the C language.

**PROBLEM STATEMENT (Isaac)**

In the digital age that we are in now, the ability to communicate with computers is essential. Our lives depend on them and any new jobs will depend on programming, so many services in the world are digitized everyday.

**JUSTIFICATION (Isaac)**

Once understanding the problem statement, we analyze as a team that we would like to remark the importance of programming in our lives.

Students are:

**learning to express their creativity using coding and technology**. learning to solve a variety of problems found in their projects. demonstrating a different mind speaking mathematically to the computer/device through their coding.

**GENERAL OBJECTIVE (Isaac)**

Understand, learn and analyze that programming is for everyone, no matter the university career we are studying. You do not need to be an ITI student to enter the world of programming.

**SPECIFIC OBJECTIVES (Isaac)**

| 1. Understand why programming is important. 2. Give tips on how to learn programming easily. 3. Understand the impact of developers on life. 4. Introduce a programming language as an example 5. Invite the audience to learn programming |
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**DEVELOPING**

**How to Learn Programming? (Yahir)**

One way that many people begin to learn to code is to start by choosing a programming language, without knowing the differences between them. This could be avoided by taking an online coding course, a tutorial project, or buying a random book on a specific topic.

Use These 7 Tips to Help You Learn Computer Programming Faster

1. Focus on the Fundamentals. ...
2. Learn to Ask for Help. ...
3. Put Your Knowledge into Action. ...
4. Learn How to Code by Hand. ...
5. Check out Helpful Online Coding Resources. ...
6. Know When to Step Away and Take a Break from Code Debugging. ...
7. Do More Than Just Read Sample Code. …

BENEFIT

Programming gives you another vision in problem solving because it could helps you solve problems logically.

This is because programming is about dividing or breaking down something big into smaller and simpler tasks in order to understand the problem or the process.

This logical approach to solving problems can be transferred to all kinds of professional and even personal situations.

**Phyton. Best computer language to learn first (Emma)**

Python is always recommended if you’re looking for an easy and even fun programming language to learn first. Rather than having to jump into strict syntax rules, Python reads like English and is simple to understand for someone who’s new to programming. This allows you to obtain a basic knowledge of coding practices without having to obsess over smaller details that are often important in other languages.

Python’s Story:

Python Was created by Guido van Rossum, a Dutch programmer at the end of 80’s nearly to 90’s when he was working in Amoeba Operating System.

In the beginning it used exceptions and interfaces like Amoeba, successor of ABC language.

On October 16th 2000 Python 2.0 was released having new functions like trash collector and Unicode support.

The main advance happened when all the community starts developed this language with Guido leadiring.

On December 3rd 2008 Python 3 was released with many new characteristics.

Python also is ideal for web development, graphic user interfaces (GUIs), and software development. In fact, it was used to build Instagram, YouTube, and Spotify, so it’s clearly in demand among employers in addition to having a faster onboarding.

Though it has its advantages, Python is often thought of as a slow language that requires more testing and is not as practical for developing mobile apps as other languages.ming

**Conclusion:**

As we have already seen, programming has been with us for a long time, since the first time it was used was in 1800, more than 200 years ago, after that more and more ways of programming were created, starting with different languages. that exist.

For example: we started to use the C language, the Python language, the Java language, the C++ language, among others.

Coding can help us in different aspects and has helped humanity to achieve unimaginable things, for example: programming in daily life gives us an order in the activities to perform, we need a program for when we get ready to go to school, to do some specific activity such as bathing or brushing our teeth, programming facilitates activities with an order.

Although of course, programming on computers is a bit difficult to learn to code, but only at first, because then it gets worse.

But that doesn't mean we have to give up or get discouraged, as this is simply part of the learning process.

But that is not why we have to give up or get discouraged, as this is simply part of the learning process.

But we must also do our part to learn, because as we have said, it is not easy, it requires a lot of practice to learn to do the things that are asked of us.

As well as learning to have a better analysis and a better understanding to understand things and get to solve the problem that we have to solve.

Opinions:

(Ascencio)

In my opinion, I consider that learning how to program is quite important and in the same way I think that about all the information we have given, someone may find the topic interesting and start researching it.

And I also find it interesting to see how the programming methods evolved over the years, and that the evolution was quite fast, since there was not too much time lag between each advance.

(Yahir)

In my opinion, I consider that learning to program is quite important and in the same way I believe that about all the information that we have given, someone may find the subject interesting and start to investigate about this.

I also think the tips we gave during the presentation can be very useful for someone who is just learning the basics.

(Eslava)

In my opinion I am in love with my career, I really like programming, I am not the best programmer but every day I strive to be. I would like the audience to consider learning to program, it is very nice.

(Aguilar)

Well, in my opinion everyone has to be interested in this topic because this is the future of technology, the programmers must be experts in specific areas like artificial intelligence, networking, interfaces programmers and so many others, and how faster we learn about it we can be better prepared for the real world. And to be honest, this topic or area is not so difficult, there is an entire universe of people helping each other with any trouble.