El futuro digital es de todos | MinTIC

Universidad Industrial de Santander

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READING EXERCISE

TRUE/ FALSE/ NOT GIVEN

1. **Read the following text and decide if the statements (1 - 7) are True or False or Not Given.**

What are the origins of Python?

In the mid-1980s a dutch fellow named Guido van Rossum was working on an educational project to build a language for new coders called *ABC*. As a result of working on this project, Van Rossum became interested in language design, and that's when he started working on Python. He made some unusual decisions, which really set Python apart from the zeitgeist at that time, and continue to make the language special today.

Indentation in Python

One of Van Rossum's decisions was to make **indentation meaningful**, which is unusual in programming languages. Critics who thought this would make the language hard to use didn't receive the idea very well, but this feature is part of the reason why Python is both readable and popular. Good code style and readability is enforced by the way you have to write Python. When I first learned about indentation in Python, it struck me as a reason for the language's success

1. According to the writer, Indentation made Python succeed.

- ☐ True
- ☐ false
- ☐ not given

Why is Python a great first coding language for beginners?

- Python **syntax is very similar to English**, so it's intuitive, which helps you understand what's going on. You don't have to look up what symbols mean when you use Python. Here's an example:

```
import random

def get_random_color():
    colors = ['green', 'blue', 'red', 'yellow']
    random_color = random.choice(colors)
    return random color
```

- Python is so readable that even if a company's entire code base isn't written in Python, **developers tend to want to write code in Python**. Hackbright mentors and alumna tell me that even if they can't always write in Python, they try to write smaller projects, internal tools, and automation scripts in Python.
- Python programmers are among the **most highly paid**, which is encouraging, especially if you're considering starting a career in software engineering.

2. Python Language and English language are alike.

- ☐ True
- ☐ false
- ☐ not given

3. Some people prefer using python instead of Java and C++
- ☐ True
- ☐ false
- ☐ not given

4. Python programmers earn the most.
- ☐ True
- ☐ false
- ☐ not given

What are the disadvantages of Python?

Python is **slower** than other languages. There is a trade off between how high-level and abstract a programming language is and how efficient it is in terms of memory usage and space usage. Python is not low-level, so it's not as fast or efficient as a compiled, lower-level language, like Java or Rust. It's less common to use Python to build distributed database systems or other systems where speed is incredibly important.

What are alternatives to Python?

- The most common alternative to Python is **Ruby**. Ruby is similar in syntax to Python that it can be hard to learn Ruby and Python one right after another. It's almost like learning Spanish and Portuguese at the same time.
- The other primary alternative in the web arena is **Full Stack JavaScript**. Python and JavaScript are not too similar, but they can be used for similar purposes.

5. Python is slower than other languages
- ☐ True
- ☐ false
- ☐ not given

6. Python is not usually used when systems require high speed.
- ☐ True
- ☐ false
- ☐ not given

7. Python and java are pretty similar, so they can be used for similar purposes.
- ☐ True
- ☐ false
- ☐ not given