



UNIVERSIDAD NACIONAL DEL ALTIPLANO



PYTHON ZEN PRINCIPLES

"Beautiful is better than ugly

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COURSE: Programming language II

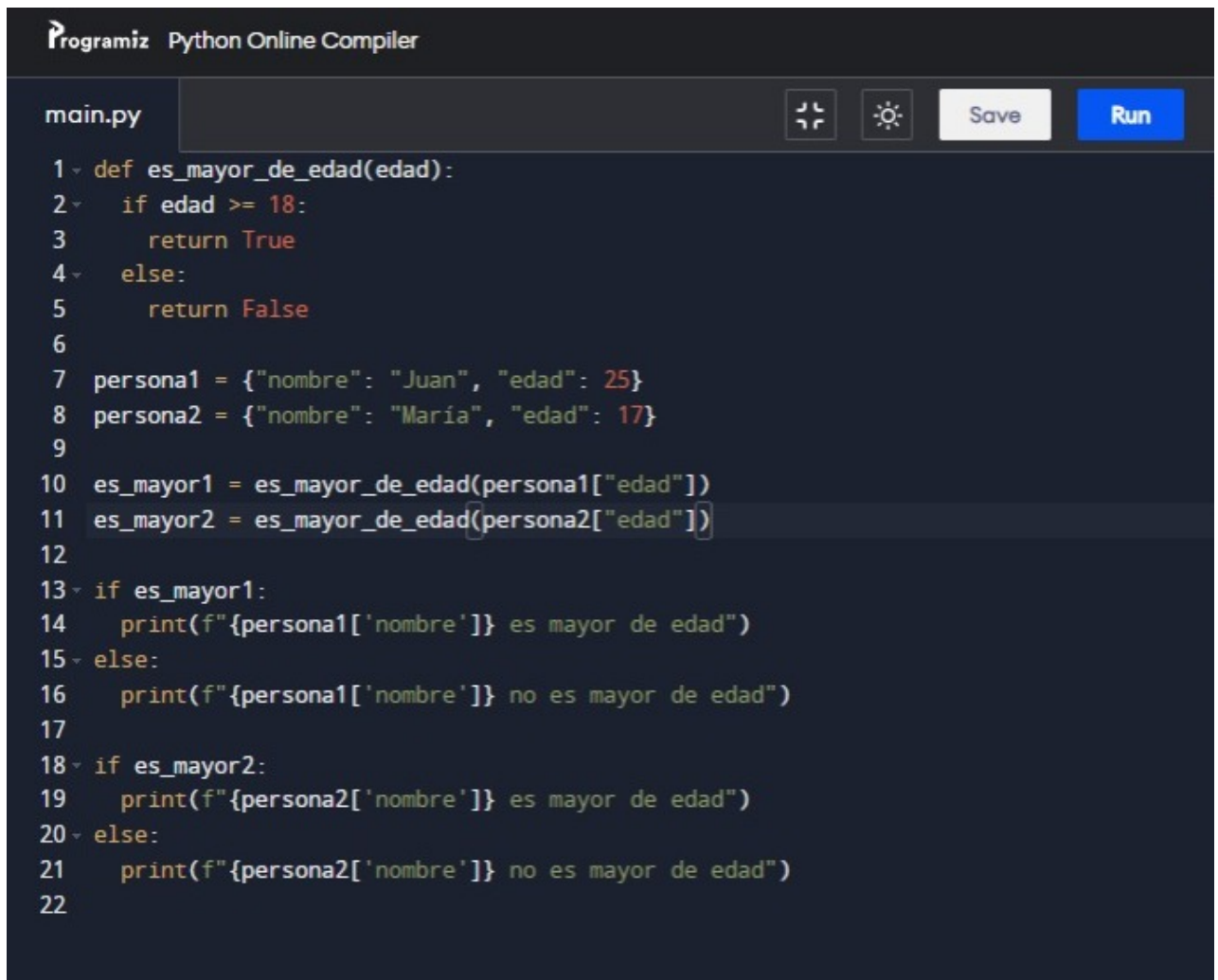
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BEAUTIFUL IS BETTER THAN UGLY

The principle "Beautiful is better than ugly" is one of the fundamental principles of Python's design philosophy. This principle emphasizes the importance of readability, clarity, and simplicity in Python code.

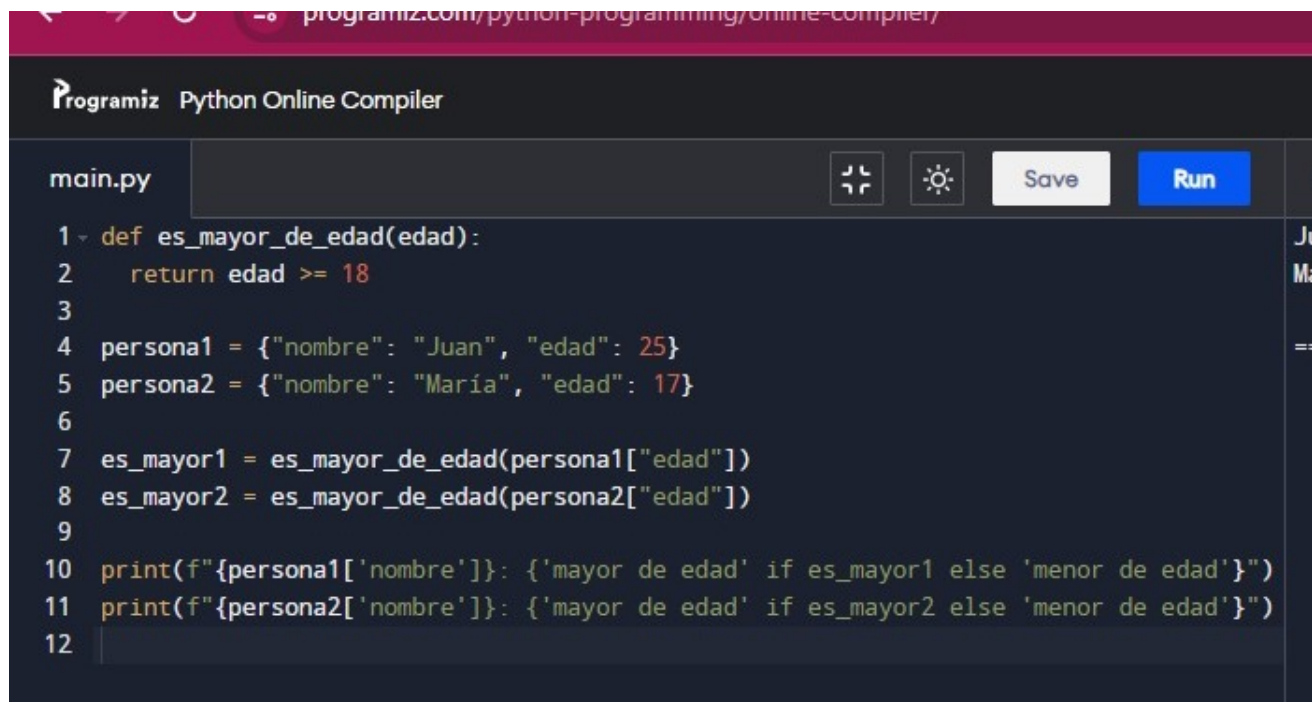
An example of how this principle is applied in Python is the preference for using descriptive and meaningful variable names rather than short or cryptic names. For example, instead of using a variable called `x` to store a person's age, it would be clearer and more understandable to use a variable called `age`.

0.1 Ugly code

A screenshot of a web-based Python IDE titled "Programiz Python Online Compiler". The interface shows a file named "main.py" with a dark background and light-colored text. The code is written in Python and is considered "ugly" due to its lack of readability. It defines a function `es_mayor_de_edad(edad)` that checks if a person is 18 or older. It then creates two dictionaries, `persona1` and `persona2`, representing people. The code uses the function to check the age of each person and prints the result. The code is poorly formatted, with inconsistent indentation and variable names that are not descriptive.

```
1 def es_mayor_de_edad(edad):
2     if edad >= 18:
3         return True
4     else:
5         return False
6
7 persona1 = {"nombre": "Juan", "edad": 25}
8 persona2 = {"nombre": "María", "edad": 17}
9
10 es_mayor1 = es_mayor_de_edad(persona1["edad"])
11 es_mayor2 = es_mayor_de_edad(persona2["edad"])
12
13 if es_mayor1:
14     print(f"{persona1['nombre']} es mayor de edad")
15 else:
16     print(f"{persona1['nombre']} no es mayor de edad")
17
18 if es_mayor2:
19     print(f"{persona2['nombre']} es mayor de edad")
20 else:
21     print(f"{persona2['nombre']} no es mayor de edad")
22
```

0.2 Beautiful code



The screenshot shows the Programiz Python Online Compiler interface. The browser address bar at the top displays `programiz.com/python-programming/online-compiler/`. The compiler's header includes the Programiz logo and the text "Python Online Compiler". Below the header, the file name "main.py" is shown on the left, and on the right are icons for a code editor (four arrows), a sun icon for theme toggling, and buttons for "Save" and "Run". The main area contains a Python script with 12 lines of code. The code defines a function `es_mayor_de_edad` that takes an age and returns a boolean. It then creates two dictionaries, `persona1` and `persona2`, with names and ages. The script calls the function for each person and prints the results using f-strings.

```
1 def es_mayor_de_edad(edad):  
2     return edad >= 18  
3  
4 persona1 = {"nombre": "Juan", "edad": 25}  
5 persona2 = {"nombre": "María", "edad": 17}  
6  
7 es_mayor1 = es_mayor_de_edad(persona1["edad"])  
8 es_mayor2 = es_mayor_de_edad(persona2["edad"])  
9  
10 print(f"{persona1['nombre']}: {'mayor de edad' if es_mayor1 else 'menor de edad'}")  
11 print(f"{persona2['nombre']}: {'mayor de edad' if es_mayor2 else 'menor de edad'}")  
12
```