

Quiz 1 - 😊

Pregunta 1

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does **HTML** stand for?

Selecione una:

- ☐ a. Home Tool Markup Language
- ☒ b. Hyper Text Markup Language
- ☐ c. Hyperlinks and Text Markup Language



La respuesta correcta es: Hyper Text Markup Language

Pregunta 2

Correcta

Se puntúa 2,00
sobre 2,00

🚩 Marcar
pregunta

Which of the following are **Python** based **web frameworks**?

Selecione una o más de una:

- ☐ a. Angular
- ☐ b. AngularJS
- ☒ c. Flask
- ☒ d. Bottle
- ☐ e. Drogon
- ☒ f. Pyramid
- ☐ g. React.js
- ☒ h. Django



Las respuestas correctas son: Flask, Django, Bottle, Pyramid

Pregunta 3

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

A web framework is a code library that makes web development faster and easier by providing common patterns for building reliable, scalable and maintainable web applications.

Selecione una:

- ☒ Verdadero
- ☐ Falso



La respuesta correcta es 'Verdadero'

Pregunta **4**

Correcta

Se puntúa 1,00 sobre 1,00

🚩 Marcar pregunta

What does **CSS** stand for?

Selecione una:

- ☒ a. Cascading Style Sheets
- ☐ b. Computer Style Sheets
- ☐ c. Creative Style Sheets
- ☐ d. Colorful Style Sheets



La respuesta correcta es: Cascading Style Sheets

Pregunta **5**

Correcta

Se puntúa 1,00 sobre 1,00

🚩 Marcar pregunta

What is the value of the variable foo in the following Javascript code segment?

```
//ASCII value (charCode) for 'B' is 66
```

```
//ASCII value (charCode) for 'C' is 67
```

```
//ASCII value (charCode) for '1' is 49
```

```
var obj = {  
  name: 'B',  
  lastname: 'C',  
  age: 66,  
  course: 'B1',  
  money: 1.375  
}
```

```
var foo = obj.name + 1
```

Selecione una:

- ☐ a. 1
- ☐ b. 66
- ☐ c. 67
- ☒ d. B1
- ☐ e. NaN



La respuesta correcta es: B1

Pregunta **6**

Correcta

Se puntúa 1,00 sobre 1,00

🚩 Marcar pregunta

Cascading Style Sheets (CSS) is?

Selecione una o más de una:

- ☒ a. A simple mechanism for adding style (e.g., fonts, colors, spacing) to Web documents.
- ☒ b. A style sheet language, or style language
- ☐ c. A command language.
- ☐ d. A programming language



Las respuestas correctas son: A simple mechanism for adding style (e.g., fonts, colors, spacing) to Web documents., A style sheet language, or style language

Pregunta **7**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Web development is the umbrella term for conceptualizing, creating, deploying and operating web applications and application programming interfaces for the Web.

Seleccione una:

- ☒ Verdadero ✓
- ☐ Falso

La respuesta correcta es 'Verdadero'

Pregunta **8**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

How many times will the while loop of the following Python code be executed?:

```
ini = 0
fin = 128
x = 64
while(ini < fin):
    mid = int ( (ini + fin + 1)/2 )
    if(mid == x):
        break
    elif( mid > x):
        fin = mid - 1
    else:
        ini = mid
```

Seleccione una:

- ☐ a. 0
- ☐ b. It never Ends
- ☐ c. 7
- ☒ d. 1
- ☐ e. 2



La respuesta correcta es: 1

Pregunta **9**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following C++ code segment prints?

```
char a = 'x';
int b = a + 1;
cout<< b << '\n';
```

Seleccione una:

- ☐ a. Error
- ☐ b. y
- ☐ c. -1757895751
- ☒ d. 121
- ☐ e. 1



La respuesta correcta es: 121

Pregunta **10**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Is **HTML** a **markup language**?

Selecione una:

- ☒ Verdadero ✓
- ☐ Falso

La respuesta correcta es 'Verdadero'

Pregunta **11**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following Python code, with the help of Numpy, segment prints?

```
a = numpy.arange(12)*2  
i = numpy.array([1, 1, 3, 8, 5])  
print(a[i])
```

Selecione una:

- ☐ a. [0. 1. 2. 3. 4.]
- ☒ b. [2 2 6 16 10] ✓
- ☐ c. [-4. -2. 0. 2. 4.]
- ☐ d. [1 1 9 64 25]
- ☐ e. [-4. -3. -2. -1. 0.]

La respuesta correcta es: [2 2 6 16 10]

Pregunta **12**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

A web framework is not required required to build web apps, a web app can be directly directedly in HTML, CSS and JavaScript?

Selecione una:

- ☒ Verdadero ✓
- ☐ Falso

La respuesta correcta es 'Verdadero'

Pregunta 13

Correcta

Se puntúa 2,00
sobre 2,00

🚩 Marcar
pregunta

What is the output of this code (<https://docs.python.org/3/library/html.parser.html#example-html-parser-application>)

```
from html.parser import HTMLParser

class MyHTMLParser(HTMLParser):
    def handle_starttag(self, tag, attrs):
        print("Encountered a start tag:", tag)

    def handle_endtag(self, tag):
        print("Encountered an end tag :", tag)

    def handle_data(self, data):
        print("Encountered some data  :", data)

parser = MyHTMLParser()
parser.feed('<html><head><title>Test</title></head>'
          '<body><h1>Parse me!</h1></body></html>')
```

Seleccione una:

- ☒ a. Encountered a start tag: html
Encountered a start tag: head
Encountered a start tag: title
Encountered some data : Test
Encountered an end tag : title
Encountered an end tag : head
Encountered a start tag: body
Encountered a start tag: h1
Encountered some data : Parse me!
Encountered an end tag : h1
Encountered an end tag : body
Encountered an end tag : html
- ☐ b. Encountered a start tag: html
Encountered a start tag: head
Encountered a start tag: title
Encountered some data : Test
Encountered an end tag : title
Encountered an end tag : head
Encountered a start tag: body
Encountered a start tag: h1
Encountered some data : Hello world!
Encountered an end tag : h1
Encountered an end tag : body
Encountered an end tag : html

La respuesta correcta es:

```
Encountered a start tag: html
Encountered a start tag: head
Encountered a start tag: title
Encountered some data : Test
Encountered an end tag : title
Encountered an end tag : head
Encountered a start tag: body
Encountered a start tag: h1
Encountered some data : Parse me!
Encountered an end tag : h1
Encountered an end tag : body
```

Pregunta **14**
Correcta
Se puntúa 1,00
sobre 1,00
🚩 Marcar
pregunta

Conceptually, what does running the line `print(oct(18917289))` using a Python 3 enviroment do?

Selecione una:

- ☒ a. It gets an octal representation for the decimal 18'917.289 and then prints it. ✓
- ☐ b. No operation is done, an exception is thrown because Python 3 does not include any oct command or operator.
- ☐ c. It reads "18917289" as an octal expression, then this is converted to a decimal value and printed.
- ☐ d. It accesses a registry in RAM called "oct" and stores there the decimal value 18917289. Exceptions are printed if syntax is wrong.

La respuesta correcta es: It gets an octal representation for the decimal 18'917.289 and then prints it.

Pregunta **15**
Correcta
Se puntúa 1,00
sobre 1,00
🚩 Marcar
pregunta

In which of the following python containers the items cannot be accesed by referring to an index(not necessary integer)?

- ☐ a. Lists
- ☐ b. Tuples
- ☐ c. Dictionarys
- ☒ d. Sets ✓
- ☐ e. Numpy arrays

La respuesta correcta es:
Sets

Pregunta **16**
Correcta
Se puntúa 1,00
sobre 1,00
🚩 Marcar
pregunta

A style sheet language, or style language, is a computer language that expresses the presentation of structured documents.

Selecione una:

- ☒ Verdadero ✓
- ☐ Falso

La respuesta correcta es 'Verdadero'

Pregunta **17**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

How many times will the while loop of the following Python code be executed?:

```
ini = 0
fin = 128
x = 100
while(ini != x):

    mid = int ((ini + fin + 1)/2 )

    if( mid < x):
        fin = mid - 1
    else:
        ini = mid
```

Seleccione una:

- ☐ a. 7
- ☒ b. It never Ends
- ☐ c. 1
- ☐ d. 0
- ☐ e. 2



La respuesta correcta es: It never Ends

Pregunta **18**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Python's standard library supports many Internet protocols:

- [HTML and XML](#)
- [JSON](#)
- [E-mail processing](#).
- Support for [FTP](#), [IMAP](#), and other [Internet protocols](#).
- Easy-to-use [socket interface](#).

Seleccione una:

- ☒ Verdadero
- ☐ Falso



La respuesta correcta es 'Verdadero'

Pregunta **19**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What is the final value of the variable foo in the following Javascript code segment?

```
var foo = 0;
for(i = 0; i < 10; i+=1){
    foo *= 2;
}
```

Seleccione una:

- ☐ a. 45
- ☒ b. 0
- ☐ c. 66
- ☐ d. 55
- ☐ e. 100



La respuesta correcta es: 0

Pregunta **20**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following Python code segment prints? (plt here is the name to use pyplot from Matplotlib)

```
names = ['group_a', 'group_b', 'group_c']
```

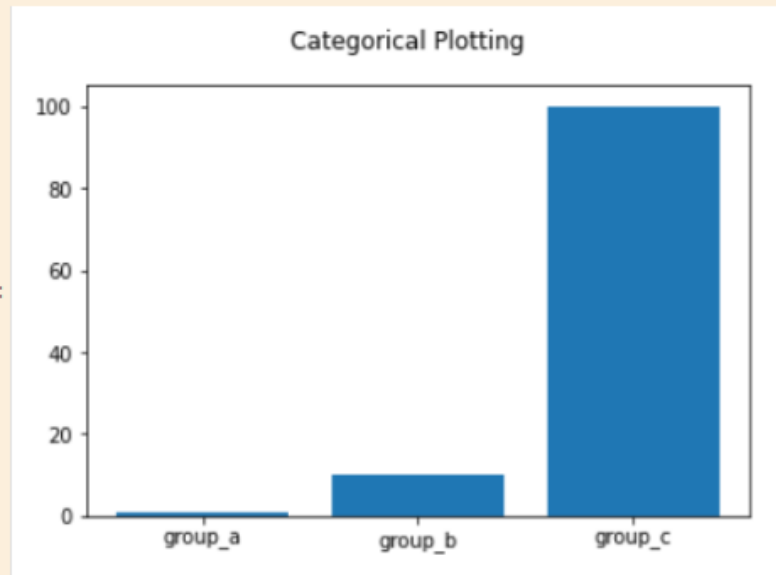
```
values = [1, 10, 100]
```

```
plt.bar(names, values)
```

```
plt.suptitle('Categorical Plotting')
```

```
plt.show()
```

La respuesta correcta es:



Pregunta **21**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Is HTML a language?

Seleccione una:

☒ Verdadero ✓

☐ Falso

La respuesta correcta es 'Verdadero'

Pregunta **22**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What prints the following code:

```
L = (1,3,1,4,5)
```

```
T = (1,2,3)
```

```
print(T*2 + L)
```

- ☐ a. (1, 2, 3, 1, 2, 3, 2, 3, 1, 4, 5)
- ☐ b. (3, 7, 7, 4, 5)
- ☒ c. (1, 2, 3, 1, 2, 3, 1, 3, 1, 4, 5)
- ☐ d. (2, 4, 6, 1, 3, 1, 4, 5)
- ☐ e. (1, 2, 3, 1, 2, 3, 1, 3, 2, 4, 5)

La respuesta correcta es:

(1, 2, 3, 1, 2, 3, 1, 3, 1, 4, 5)

Pregunta **23**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Conceptually, what does running the line `int('F',16)` using a Python 3 environment do?

Selecione una:

- ☐ a. It accesses a registry in RAM called "F" and stores there the decimal value 16. Exceptions are printed if syntax is wrong.
- ☐ b. It gets an hexadecimal representation for the decimal 16 and then prints it.
- ☐ c. It checks if the String "F" is a valid base 16 number, printing "false" if any symbol not allowed in hexadecimal representations is contained in the input String.
- ☒ d. It reads the String "F" as a base 16 or hexadecimal expression, this is then converted to a decimal value and printed. ✓

La respuesta correcta es: It reads the String "F" as a base 16 or hexadecimal expression, this is then converted to a decimal value and printed.

Pregunta 24

Correcta

Se puntuó 1,00
sobre 1,00

🚩 Marcar
pregunta

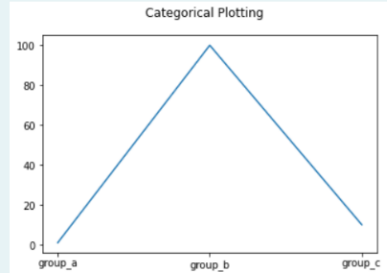
What does the following Python code segment prints? (plt here is the name to use pyplot from Matplotlib)

```
names = ['group_a', 'group_b', 'group_c']  
values = [1, 10, 100]
```

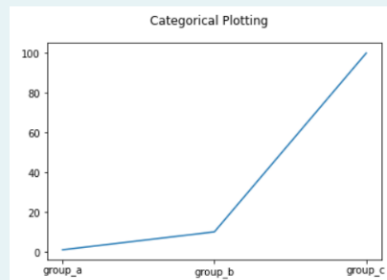
```
plt.plot(names, values)  
plt.suptitle('Categorical Plotting')  
plt.show()
```

Seleccione una:

☐ a.



☒ b.



✓

Pregunta 25

Correcta

Se puntuó 1,00
sobre 1,00

🚩 Marcar
pregunta

Among the different ideas that have allowed the advance of computer hardware and software , one very important is the use of different numerical systems for representing values, being the most famous the binary, hexadecimal, octal and decimal representations.

Running the following Python 3 block of code has as result:

```
x=0o3745  
print(x)
```

Seleccione una:

☒ a. 2021

☐ b. 2019

☐ c. -1

☐ d. 0o3745

✓

La respuesta correcta es: 2021

Pregunta **26**

Correcta

Se puntúa 2.00
sobre 2.00

🚩 Marcar
pregunta

What is the output of the following segment of code (<https://docs.python.org/3/library/html.parser.html#examples>)

```
from html.parser import HTMLParser
from html.entities import name2codepoint

class MyHTMLParser(HTMLParser):
    def handle_starttag(self, tag, attrs):
        print("Start tag:", tag)
        for attr in attrs:
            print("    attr:", attr)

    def handle_endtag(self, tag):
        print("End tag :", tag)

    def handle_data(self, data):
        print("Data    :", data)

    def handle_comment(self, data):
        print("Comment :", data)

    def handle_entityref(self, name):
        c = chr(name2codepoint[name])
        print("Named ent:", c)

    def handle_charref(self, name):
        if name.startswith('x'):
            c = chr(int(name[1:], 16))
        else:
            c = chr(int(name))
        print("Num ent :", c)

    def handle_decl(self, data):
        print("Decl   :", data)

parser = MyHTMLParser()

parser.feed('<p><a class=link href=#main>tag soup</p>></a>')
```

La respuesta correcta es:

```
Start tag: p
Start tag: a
    attr: ('class', 'link')
    attr: ('href', '#main')
Data    : tag soup
End tag : p
End tag : a
```

Pregunta **27**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following Python code:

```
x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
y = x[::-1]
print(y)
```

Selecione una:

- ☐ a. 1 2 3 4 5
- ☐ b. a e i o u
- ☐ c. [1, 2, 3, 4, 5, 4, 3, 2, 1]
- ☐ d. [1, 2, 3, 4, 5, 6, 7, 8, 9]
- ☒ e. [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]

La respuesta correcta es: [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]

Pregunta **28**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

A **markup language** is a system for annotating a document in a way that is syntactically distinguishable from the text.

Selecione una:

- ☒ Verdadero ✓
- ☐ Falso

La respuesta correcta es 'Verdadero'

Pregunta **29**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

	A	B	C	D
2020-09-01	35	20	16	3
2020-09-02	47	46	47	36
2020-09-03	20	33	12	21
2020-09-04	46	5	20	35
2020-09-05	39	38	39	27
2020-09-06	31	10	47	36

With that dataframe from Pandas called "data", what is the result of the following Python segment code

```
data.apply(lambda x: x.min() - x.count())
```

Selecione una:

- ☐ a. A -27
B -41
C -35
D -33
- ☒ b. A 14
B -1
C 6
D -3

✓

Pregunta **30**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following Python code prints:

```
print(type(20))
```

Selecione una:

- ☐ a. <class 'float'>
- ☐ b. 15.0
- ☐ c. 14.0
- ☐ d. 20
- ☒ e. <class 'int'>

La respuesta correcta es: <class 'int'>

Pregunta **31**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following C++ code segment prints?

```
set <int> s;  
for(int i = 0; i < 10; i++){  
    s.insert(i%5);  
}  
cout<<s.size()<<endl;
```

Selecione una:

- ☐ a. 10
- ☒ b. 5
- ☐ c. 1
- ☐ d. 2
- ☐ e. 11

La respuesta correcta es: 5

Pregunta **32**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Is **HTML** a programming language?

Selecione una:

- ☐ Verdadero
- ☒ Falso ✓

La respuesta correcta es 'Falso'

Pregunta **33**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

	A	B	C	D
2020-09-01	35	20	16	3
2020-09-02	47	46	47	36
2020-09-03	20	33	12	21
2020-09-04	46	5	20	35
2020-09-05	39	38	39	27
2020-09-06	31	10	47	36

With that dataframe from Pandas called "data", what is the result of the following Python segment code

```
data.apply(lambda x: x.count() - x.max())
```

Selecione una:

- ☐ a. A 41
B 40
C 41
D 30
- ☒ b. A -41
B -40
C -41
D -30

✓

Pregunta **34**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following Python 3 code prints:

```
print(1 + 5 * 4 / 2 + 3)
```

Selecione una:

- ☐ a. 20
- ☐ b. <class 'int'>
- ☐ c. 15.0
- ☒ d. 14.0
- ☐ e. <class 'float'>

La respuesta correcta es: 14.0

Pregunta **35**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Among the different ideas that have allowed the advance of computer hardware and software , one very important is the use of different numerical systems for representing values, being the most famous the binary, hexadecimal, octal and decimal representations.

Running the following Python 3 block of code has as result:

```
x=0b1101  
y=7  
z = x+y  
print(z)
```

Selecione una:

- ☐ a. "[0b1101 + 7]"
- ☐ b. -6
- ☐ c. PyException Thrown: OperandRepresentationException --> StackTrace
----> Line 3: [binary] + [decimal]
- ☒ d. 20



La respuesta correcta es: 20

Pregunta **36**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Which of the following python containers is immutable?

- ☐ a. Lists
- ☒ b. Tuples
- ☐ c. Sets
- ☐ d. Numpy arrays
- ☐ e. Dictionarys

La respuesta correcta es:
Tuples

Pregunta **37**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following Python code:

```
x = {'a':1, 'e':2, 'i':3, 'o':4, 'u':5}
```

for y in x:

```
    print(x[y], end = " ")
```

Selecione una:

- ☐ a. [1, 2, 3, 4, 5, 6, 7, 8, 9]
- ☒ b. 1 2 3 4 5
- ☐ c. [1, 2, 3, 4, 5, 4, 3, 2, 1]
- ☐ d. [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
- ☐ e. a e i o u

La respuesta correcta es: 1 2 3 4 5

Pregunta **38**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

What does the following Python code, with the help of Numpy, segment prints?

```
b = numpy.linspace(-180,180,5)  
print(b/45)
```

Selecione una:

- ☒ a. [-4, -2, 0, 2, 4]
- ☐ b. [0, 1, 2, 3, 4]
- ☐ c. [2 2 6 16 10]
- ☐ d. [1 1 9 64 25]
- ☐ e. [-4, -3, -2, -1, 0]

La respuesta correcta es: [-4, -2, 0, 2, 4]

Pregunta **39**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Is **Markdown** a **programming language**?

Selecione una:

- ☐ Verdadero
- ☒ Falso ✓

La respuesta correcta es 'Falso'

Pregunta **40**

Correcta

Se puntúa 1,00
sobre 1,00

🚩 Marcar
pregunta

Is **Markdown** a **markup language**?

Selecione una:

- ☒ Verdadero ✓
- ☐ Falso

La respuesta correcta es 'Verdadero'