Colegio de San Juan de Letran-Calamba

School of Computer Studies and Technology

MIDTERM EXAMINATION
INFORMATION TECHNOLOGY
CSIT111A-L: Web Technologies I
1st Sem., A.Y. 2021-2022

Name: _____   Score: _____ **/ 100 *100 = _____%**

Part 1. APPLICATION (50 pts)

Write HTML codes using VSCode editor to generate the following output. Once you're done, kindly commit your source codes to your Github repository.

Download all text and image resources from the Blackboard.

Repository structure

--web-tech
-----midterm
---------<Save your exam here>

Sample Output:

TOPICS

Syntax

Comments

Variables

Data Types

Numbers

Casting

Strings

Operators

Lists

Tuples

Sets

HOT

NEW TUTORIALS

How to Learn Web Development
By Jonas Schmedtmann

The Unknown Powers of CSS
By Jim Dillon

Why JavaScript is Awesome
By Matilda

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The General Purpose Language of the Decade: Python

TOP

There are many languages out there, so what makes Python such a destination? If the most-read articles tell us anything, it's that people enjoy its flexibility. There are multiple paradigms that are accessible to Python developers, as **Jigyasa Grover** explains, including the popular object-oriented programming Seth Kenlon's tutorial shows.

If you're a long-time user and looking for advanced examples of why Python is a perfect language, **Moshe Zadka** covers his top 5 reasons for loving Python. If that's not enough, you can also use it play around with powerful tools without a lot of code, like in Parul Pandey's tutorial on image manipulation.

Python is a popular programming language.

Python can be used on a server to create web applications.

Syntax

As we learned in the previous page, Python syntax can be executed by writing directly in the Command Line:

```
>>> print ("Hello, World!")
Hello, World!
```

Comments

- **Comments can be used to explain Python code.**
- Comments can be used to make the code more readable.
- *Comments can be used to prevent execution when testing code.*

```
>>> #This is a comment
>>> print("Hello, World!")
Hello, World!
```

Variables

Variables are containers for storing data values.

Python has no command for declaring a variable.

A variable is created the moment you first assign a value to it.

```
>>> x = 4
>>> print (x)
4
```

Data Types

In programming, data type is an important concept.

Variables can store data of different types, and different types can do different things.

Python has the following data types built-in by default, in these categories:

```
Text Type: str
Numeric Types: int, float, complex
Sequence Types: list, tuple, range
Mapping Type: dict
Set Types: set, frozenset
Boolean Type: bool
Binary Types: bytes, bytearray, memoryview
```

Hopefully you learned something new here. See you next time!

Rubrics

Category	10 points	7 points	4 points	1 point	0 point
Completeness	All elements are present in the web page	70% of the required elements are present in the web page	40% of the required elements are present in the web page	10% of the required elements are present in the web page	No elements found.
Layout	Web Page layout is properly aligned with the mockup	70% of the web page layout is properly aligned with the mockup	40% of the web page layout is properly aligned with the mockup	10% of the web page layout is properly aligned with the mockup	No layout
Content	All text content, colors, and fonts are properly aligned with the specifications	70% of the text content, colors, and fonts are properly aligned with the specifications	40% of the text content, colors, and fonts are properly aligned with the specifications	10% of the text content, colors, and fonts are properly aligned with the specifications	No content
Documentation	The entire project is properly documented.	Only 70% of the project is properly documented.	Only 40% of the project is properly documented.	Only 10% of the project is properly documented.	No documentation
Source code management	The entire project was successfully committed to Github repository	Only 70% of the project is successfully committed to Github repository	Only 40% of the project is successfully committed to Github repository	Only 10% of the project is successfully committed to Github repository	No repository

Part 2. ESSAY (40 pts)

1. Differentiate the following CSS selectors **(20 pts)**
   a. Combining selectors
   b. Class and ID selectors
   c. Pseudo-classes

2. Differentiate the following hyperlinks styling attributes **(20pts)**
   a. a:hover
   b. a:active
   c. a:visited
   d. a:link

Rubric:

5	3	1	0
• Provides a *thorough* explanation and supported the analysis of the text. • Factual statements made are *all accurate*. • All statements made are *relevant and informative*	• Provides *some* explanation of the text. • Factual statements made are *mostly accurate*. • *Has a significant number* of *irrelevant or repetitive* statements.	• Does not explain the text. • Factual statements are *vague or inaccurate*. • *Mostly irrelevant or repetitive statements or very few statements*.	• No answer

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