Assignment 1

February 6, 2023

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[9]: #1. Who developed python programming language ?
     #Answer: Python programming language was developed by Guido Van Rossum.
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[10]: #2. Which type of programming does python support ?
      #Answer: Python supports multiple programming paradigms including
      #Object-Oriented programming,Functional programming,procedural programming.
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[6]: #3.Is python case sensitive when dealing with identifiers ?
     #Answer: Yes, Python is a case sensitive when dealing with identifiers.
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[11]: #4. What is the correct extension of the python file ?
      #Answer:The correct extension for python file is".py" .
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[24]: #5.Is python code compiled or interpreted?
      #Answer:python code is interpreted,not compiled.
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[14]: #6.Name a few blocks of code used to define in python language ?
      #Answer:Indentation is used to define a block of code in python.
      #some common blocks of code in python include:
      ##fuction,defined using "def" keyword
      ##classes,defined using "class" keyword
      ##conditionalstatement, such as "if" and "else"
      ##loops,such as "for" and "while".
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[25]: #7.State a character used to give single-line comments in python?
      #Answer:we write a single-line comments by adding a single # character before␣
       ↪any statement or line of code.
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[16]: #8.Mention functions which can help us to find the version of python that we␣
       ↪are currently working on?
      #Answer:The function "sys. version"can help us to find the version of python␣
       ↪that we are currently working on.
```

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[17]: #9.Python supports the creation of anonymous functions at runtime,using a␣
       ↪construct called_____.
      #Answer:lambda function.
```

```python
[18]: #10.What does pip stand for pyhton?
      #Answer:pip stands for "Preferred Installer Program.
```

```python
[19]: #11:Mention a few built-in functions in python?
      #Answer: print()function, type()function, len() function, range() function,␣
       ↪sum() function, 'int()' 'float()' 'str()' function .
```

```python
[20]: #12.What is the maximum possible length of an identifier in python?
      #Answer: In Pyhton, an identifier have a maximum length of 79 character .
```

```python
[21]: #13.What are the benefits of using python?
      #Answer:Python has several benefits including:
      ##1 python is easy to learn.
      ##2 python is a high-level programming language.
      ##3 python has large standard libary.
      ##4 python canrun on variety of operating systems including windows,macOS,linux.
```

```python
[22]: #14.How is memory managed in python?
      #Answer:Memory management in Python involves a private heap containing all␣
       ↪Python objects and data structures. The management of this private heap is␣
       ↪ensured internally by the Python memory manager.
```

```python
[23]: #15.How to install python on windows and set path variables?
      #Answer:#Step 1 - Select Version of Python to Install
              #Step 2 - Download Python Executable Installer
              #Step 3 - Run Executable Installer
              #Step 4 - Verify Python is installed on Windows
              #Step 5 - Verify Pip was installed
      #STEPS to set path variables in windows:
      ##step1-Right-clicking This PC and going to Properties.

      ##step2-Clicking on the Advanced system settings in the menu on the left.

      ##step3-Clicking on the Environment Variables button on the bottom right.

      ##step4-In the System variables section, selecting the Path variable and␣
       ↪clicking on Edit. The next screen will show all the directories that are␣
       ↪currently a part of the PATH variable.

      ##step5-Clicking on New and entering Python's install directory
```

```python
[ ]: #16.Is indentation required in python?
     #Answer:Yes, indentation is required in python to define blocks of code.
```