**Assignment**

**1. Who developed the python programming language?**

**Ans: Guido Van Rossum developed python programming language.**

**2. Which type of programming does python support?**

**Ans: python supports object oriented programming and structured programming.**

**3. Is python case sensitive when dealing with identifiers?**

**Ans: Yes python is case sensitive when dealing with identifiers.**

**4. What is the correct extension of the python file?**

**Ans: .py is the correct extension of the python file.**

**5. Is python code compiled or interpreted?**

**Ans: Yes python code compiled or interpreted.**

**6. Name a few blocks of code used to define in the python language?**

**Ans: n = int(input(“Enter a number: ”))**

**for i in n:**

**For j in (i+1):**

**print(“\*”)**

**print(“\r”)**

**7.State a character used to give single line comments in python?**

**Ans: In python, the # character is used to start a comment.**

**8. Mention function which can help us to find the version of python that we are currently working on?**

**Ans: The function sys.version can help us to find the version of python that we are currently working on.**

**9. Python support the creation of anonymous function at runtime, using a construct called \_\_\_\_\_\_\_**

**Ans: Python supports the creation of anonymous functions at runtime, using a construct called “Lambda”.**

**10. What does pip stand for python?**

**Ans: pip stands for “Preferred installer program” .**

**11. Mention a few built-in functions in python?**

**Ans:**

* **print() function**
* **type() function**
* **input() function**
* **abs() function**
* **pow() function**
* **dir() function**
* **sorted() function**
* **max() function**
* **round() function**
* **divmod() function**
* **id() function**
* **ord() function**
* **len() function**
* **sum() function**
* **help() function**

**12. What is the maximum possible length of an identifier in python?**

**Ans: An identifier can have a maximum length of 79 characters in python.**

**13. What are the benefits of using python?**

**Ans:**

* **Simple to use and understand**
* **Free and open source**
* **Productivity has increased**
* **Interpreted language**
* **Extensive library**
* **Dynamically typed**
* **Portability**
* **Supportive community**

**14. How is memory managed in python?**

**Ans: memory in python is managed by python private heap space. All python objects and data structures are located in a private heap. The private heap is taken care of by the python interpreter itself, and a programmer doesn’t have access to this private heap.**

**15. How to install python on windows and set path variables?**

**Ans: Install python from the link** [**https://www.python.org/downloads/**](https://www.python.org/downloads/) **. After this, install it on your PC. Look for the location where PYTHON has been installed on your PC using the following command on your command prompt: cmd python.**

**Then as PYTHON\_NAME and paste the copied path.**

**Then look for the path variable, select its value and select edit add a semicolon towards the end of the value if it’s not present and type %PYTHON\_HOME%.**