## PW skills Data science master’s program

### Jan 29 2023 assignment

## 1. Who developed python programming language?

### Guido Van Russoum

## 2. Which type of programming does python supports?

**Python supports both object-oriented and procedure programming**

## 3. Is python case sensitive while dealing with identifiers?

### Yes, its case sensitive

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

### .py

## 5. Is python code compiled or interpreted?

### Python code is first complied and then interpreted. When python code is complied, a byte code is generated and internally this byte code is converted by (pvm)

## 6. Name a few blocks of code used to define in python programming?

for i in range(0,10):  
 print(i)

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

### # is character used

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

### sys.version

### python\_version()

## 9. Python supports the creation of an anonymous function during runtime using a construct called

### Lambda

## 10. What does pip stands for Python?

### pip- Pip install packages or Pip install python, used for installing and managing packages

## 11. Mention a few built in functions in Python

### print(), max(), min(), list(), format(), len(), count(), find()

## 12. What is the maximum possible length of an identifier in Python?

### 79 is possible length

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

### Python is open source language, high level language and readability, easy syntax, many libraries, easy integrations.

### Used in Data science, web developement, AI, Ml

## 14. How is memory managed in Python

### There are two types of memory allocation:

### Stack memory, Heap memory

### These memories are managed through Garbage collector, in which interpreter frees up space, when memory is not in use.

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

### Download the latest version of Python from the below website: <https://www.python.org/downloads/>

### Run the .exe and follow instructions to complete the installation process.

### Once the installation is complete, open the Command Prompt and type python to check if the installation was successful and to see the version of Python installed.

### Set path variable:

### Search bar type pythonopen file location copy the file location

### PC--Properties--Advance setting--Advance--Environment variables--user variables--Path--paste the file location copied from above-- ok

## 16. Is indentation required in Python?

### Yes, its required