**G. Rupa Manasa 12-12-2023**

**Day 8 Assessment**

**Basics of Python**

Python is a high level and cross-platform language developed by Guido van Rossum in 1991.

It is a high-level, interpreted, interactive and object-oriented scripting language.

It is designed to be highly readable.

It is an interpreted language with dynamic typing.

**Features of Python**

* Easy to read
* Easy to Maintain
* Scalable
* Portable
* Broad Standard Libraries
* High Level programming
* Interactive
* Database Interfaces
* GUI programming

**History and Versions of Python**

Python was conceptualized by Guido Van Rossum in the late 1980s.

Rossum published the first version of Python code (0.9.0) in February 1991.

The following are the various versions of Python:

* Python 0.9.0 released in February 1991
* Python 1.0 released in January 1994
* Python 2.0 released in October 2000
* Python 2.6 released in October 2008
* Python 2.7 released in July 2010
* Python 3.0 released in December 2008
* Python 3.4 released in March 2014
* Python 3.6 released in December 2016
* Python 3.7 released in June 2018

**Some Python Web development frameworks**

* Django
* Flask
* Tornado
* Pyramid

**First Python Program**

* A **print** is an output instruction use to display string or data value on screen.

print(“HELLO")

* Use the type() function to determine the type of data.

Ex: a = 10

Print(Type(a)) #returns int

**Variables in Python**

A variable can be thought of as a container having a name which is used to store a value.

A variable in a Python program gives necessary data to a computer for processing.

Ex: a=10