Assignment-L 1) what are the data types in python? Explain the one types depined in the python oseo? 16 940 \$ 20014 POOP \$ 20015 (1) Numbers 1 see of mass salery they store (2) Ataing 3 List DNUMBERS! Number store numeric voice python supposits 4 type of Nonestic data O int (signed integers like 1012, 29 etc) 2) Long (long integers wed for a higher rorgeof values like 9080908001 etc) 3) Float Cities used to store floating point northers 10 conflex Complex numbers like 2+14i); Detaing the stains can be defined as the sequence of characters represented in the quotation Marks. In python we use single, double or Marks. In python define a string. Blist! List and similar to arrays in c. there the list contain data of different types: the items stored in the list one separated with a commo and enclosed with in the square brackets EJ. slice E; Jore Batons to access the date of the rist.

321810303016 59: 1 - I 1, "hi", "python" 2] Porint (1 23:7); 1) TUPLE: A TUPLE is similar to the list in many ways. Like Lists, Tuple also contain the collection of the items of different data types the items of tupic are separated with a commacs and enclosed in the pasienthesesco of the courter 图: t=("hi","python"2) Op: (1 python', 2) is an ordered set of a key-Directory! Directory is an ordered set of a keyvalue pais of items. It is like on associative assocy. Key can hold any primitive data type whereas vowe is on asibitory python object 29+ d=8 1: (simmy!, 2: Hex!, 3: (sichn 3; Print Cu ist name 18" + dEID) 2) Binary Operator Brichy explain history of Python? is a widely used, general -purpose, high-python is a widely used, general -purpose, highlevel programming language. It was initially de signed by cruido van rossum in 1991 and deverge by python software foundation it was mainly developed for emphasis mueta to expressed the expression its syntax allows paggarage code

321810203161 In the late 1980's history was about town It was that time when working on pithon Stanted - soon after that i build van possum began doing its opplication based working of 1989 by at centronwiskunde and information Cowin which is situated in netheriord. It was Stanted first as a history hobby project below he was looking for an intresting project to keep him occupied dusting charistness. The programming language which python is take to have succeeded is the brodramming roughest which had the interpocing with the Amoeta operating system and had the reature of exceptly harding. He had already helped to execute Age easier in his caseer and he had seen some issues with ABC but liked most of the peature, After that what he did as really very clerk He had taken the syntax of ABC, and some only good reatures. It came with a lot of complay too, so he fixed those issues completely and had created a good scripting language which had removed an the flaws, the inspiration for the name come from BBLLS TV Stow - Monty Python's Flying circus las he was a big for of the W show and also he wanted a spay unique and suightly mysterious name for his

Invention and hence he name it python! he was the conevoient dictator for life (BAFL) ontil he stepped down from the position as of reader on 12th July 2018 Por suite some timer red to work for boogle, but warentisk

The language was finally neigosed in 1991 when it was released, it used a lot pewer coxes to exposes the concepts when we compose it with sover, condict - Its design, philosophy was code readobility and advanced developes brown ctivity when it was necessed it had monether enough capability to provide closses with inhering tance, several core data types exception hand. ling and functions-3 Explain the operators in python? These orse used to pesiform asithmetic operation, between two operands. It includes addition (+1), substanctional, multiplication (*), divide(1), remainder(%), floor division (11) and exponent (xx). TRESE are used to compare the value of the two operands and networks boolean towe of (i) compassivon operators, The compassion operators ore: false accordingly. == , (=) (=) >=) >) (There are used to assign the value of the right expression to the left operand. egt of Assignment operations => t=>-=, x=, %=, 1=, 1= The bitwise operators perform bit by bit operation CiviBituise operatous: on the volves of two operands Blinary and (2) Blinary (XOD) (1) Lefshift (LL) Negation(v). Rightshift(>>).

[321816363616] There are used primarily in the expression Evaluation to make a decision python supposts and, os, not rosical desptoss There are used to check the membership of Notice inside a bitton. If the name is briefent in data stainthate, then the corre-FUR OHERWISE IT DEFORMS FOIRE-X in and not in asse Membership operators. is - It is evaluated to be take if the actions priesent at both side point to the same dies (Vi) identity openators; is not - It is evaluated to be true if the size sence present, at both side do not point to the same object-4) Explain the peatoner of python? Python is easy to reason and use. It is develop DEasy to learn and use. - For i end is never programming langer It neans that is more orderstandable and @ Exbressing towarder Interpreter executes the code line by line at a time. this makes debugging easy and thus suitable for beginners. A cross-brattorin rondrade, It can non equally on different platforms sud es windows, whix etc. so we can sy Python is a postable language.

13218103030161 (2) Dies oug oben sonsics: It is preely available at official mepodesty source-code is also available. It is open so 6) object - oziented language It supports object oriented tonguage and concepts of classes and objects come into It implies that other languages such as citt can be used to compile the code and thus it can be used pusither in our python code. Python has laster and board liboury and powide Lich Ret of Word our Entrious to 21 200 lig. abbit Graphical user interfoces can be developed 9 GUI Programming support It can be easily integrated with Languages 3 Justify why plython is interpreted A python is on interpreted interpreted language because) unike etc, python is on intempreted object oriented programming Jansvage - By interpreted it is meant that early time a program some and then intemporers

Howard come though code post into machine sendable byteral.

The instructions into machine

