Vinay kumar Assignments what are the data types in python Explain? A. Williambers -Number detatypes store numeric velue. Munber objects are crested is shingel (ii) Shinger Stimm are identified as a configuous set of characters represented in the quotation mosts, it allows at their apair of scuple as Ex - x = " 6 rays?". dii, Lysts. Lists are the most vereable of python's compound detadypes. A list contains items separated by somes, enclosed with square brocklet - (x; -y=(1,2,3,4) (10) Typles -A tryle es another symence detatype le similer to lot. A tuple consists of number of velues seperated by comman enclosed within perenthesis. W- Z= (1, 2,3, 4,5,6,3,5) (1) Dictionary pythonic dictionaries are kind of hack of the type. They work like associate array or howher found on prol. It can be any arbitary python object. There are enclosed within Ex 2-8 Phamer Danur, age:18 1 1 Explien briefly history of phythone phython was conceived in the Lote 1980s by quido van Rassum at Lwi in ne theelands. - phython was nemed for the ERC To show monty Pythons -phython 2.0 was reteased on october 16, 2000 with hen features including a cycle detecting garbage and collector for memory mangement support for unicode

python 3. 00 backworde - Prompedible release oreleased on December 2, 2008 after a long period of leeding. Many of mejor features have been been been ported mind unsupported, python s.6 and s. 2 . With its released it wood a lot fewer codes to express. The concepts, when we complies 92 with Java, c, e+ A. Explain all the operators in python. A openetors are the symbols that performs mothernatical opinations between two operande. (1) A aPAh medie operators -Description Adelition atb. Subtruction a-bmattigodablet oo grab b Division allb. floor division modulus a % b power (ii) Relational operators To be hard Description Greater then acb as y les then Greater then I exual to a>=6 less then figuel to ac=6 Eguel to 10= =b Not equal to 0/26 (ii) logical openetor Sperchor Description Syntax Logical AND a and b 000 5 not NOT brita

(4) Bitusus operators Cyntax Operator a 4b Bitwise AND alb Bitwise OR ~ a Bitavise NOT a nb Biturese XDR Bituise right shift a>> Bitmise loft chiff Is True of openends are identical is not true it operands are not identical (6) Membership openetorno True it velue is found in seprence hot in-Time it nelve is not found in sq @ Explaindechures of pythop A (1) tasy to learn and we. python is easy to learn and us as It is deneto por time endly ond high to red proprerning lenguege. python is expressive tenguese or and readable (15) hoteapted lenginge 1 1919111 The interpolater executes the code time by line at a time This makes debugging easy and there suitable for begoneer. (" Kross-plet from Lengine pythin can run equally on different y letterms like windows linux, unix etc. so, we can say that it is protable layurge. b) free and open source This lenguese is bosely anciable at affect web address, the source-code is also awable so, it is spen source. (ti) Object oriented language. This larguage supposts the concept of classes and objects amo into existance

It implies that other language such as e/cfp can be used to compile the code. Thus it can be further rused in our pyth Will Lorge Hardord Pibracy Python has alonge and bread library and provides dich set of module and functions for hapid application development (ix) qui proposition & apposit Coephied neer Inderface can be developed many phython It can be easily integrated with language like craft june (5) Justify why pathon is noteractive interported Language? D. python is interpreted Lengueje 12nce interpreter executes the code line by time at a time. This makes debugging easier. And converts mechine rasdeble The translation until the error is freed. python is interactive. When a python statement is entered and is followed by the return key, it appropriate The result will be printed on screen immobiledly In next line. It is used in a similar way as the for the debup stop propose for the debugging propose. A region of the second