Name: Bathish Kumar Hs Reg. No:-321910304035 Sem Bec: - 2nd Sem BH, CSE Assignment - 2 1 What the data types in Phython? Explain Aus: - * Numeric Data types Dint > Integer is a whole number, without decimals of unlimited length. 2) float -> Floating point Number is a number, positive de regative, containing one de more decimal. Ex: x = 20.456 3 Complex - Complex numbers are written with a i as a imaginary post. Ex: Z=3+5;1 * Test Dotatipe O String - String literals in python are survisunded by either single quotation marks de double quotation marks. Ex: y = "Hellow World" * Boolian Data type 1 bool -> Only two explusions Teme of False. If It sums the condition Statement it gues Teme Outre False.

2 Explain the history of Python? Ans: Python has become one of the most interest Phogramming Language of own time. It was concined by guido Van Rossum at CWI in the Netherlands during the late 1980's. The Most Amerzing stoly is that he cenated physics Python many solely his computer. His office was closed and all he had was this simple machine and his builliant mind. Thus, the first version of This perogram just appeared in 1991, that is 24 years ago. Python was enonically named after the famous British sketch comedy series "Monty Python Flying Corcus" as the founding father was a big In February 1991, the first public version of Pytha numbered 0.9.07, was posted the Usenet all some forum. The development team moved to python Belpen com in 2000. And that is where Python 2.0 was New Python Buckets Succeeded in sulearing the new major recision, Python 3.0 in 2008. And followed by Upcoming Varsions,

3 Explain All the Operators in python? Aus: - O Druthmetic Gerotous: - Used to perform Common Mathematical Operations, They are Example. Operator Name octy + Addition x-y xy xly. - Subtraction * Multiplication 1 Division OCY. Y "/ Medulus XXXX Exponentiation ally Floor division Operators: To Disign Values to Validh 2) Assignment Jame As. Example Opelator x=2x=5 $\alpha = \alpha + 3$ DL+=3 $\alpha = \alpha - 3$ $\alpha - = 3$ DC = DC * 3 X* = 3 x = x/31= x = 3x = x.1.3oc1/ = 3 1.= x=x/13 $\propto 11=3$ 11= x=xxx3 X*x=3 ** x = x & 30CX=3 842 x = x/3x = 31= $\alpha = \alpha^3$ $\alpha^2 = 3$ x = x > 3 $\alpha > = 3$ >>= DC= DC << 3 OCLL=3 11=

(3) Composiison Operators: Escample. Operator Name DC== y Equal 0c! = y Not Equal x > ygreater than ocky lesser than Geneter than on equal to DC>= y lesser than or equal to xx=y 1= 4 Logical Operators: Example. Description Operator ocks and y +2 Returns Tome if Statment is teme Returns Teure if One Brotoment XX5 or y>2 is teure not (occs) Revelise the result if the net Iresult is Tome, Ireturns Fahr Operatory, (5) Identity Example. Descenption Operators aisy Returns tem if is both variables are the same object a is not y is not Returns Teme of both valuables are not the Same Object

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(4) Eaplain the features of Python Ans: Python Peronicles lots of features that are listed below. 1 Easy to leaven and Use: Python is easy to leave and use. It is developed friendly and high level programing Language. 2 Expliersive Language: Python language is more expensive means that is more understandable and headable. 3) Interpreted Language: Python is an interpreted language i.e interpreter localis the code line by line at a time. This makes debugging easy and thus suitable for beginners (4) Cerors-platform Language: Python can even equally on different platforms such Dython is a politable language. (5) Frice and Open Bowice: Python Language is fewly available at officel Web address. The Source cod is also available. Therefore it is open close 6 Opject - Oriented Language: -Python Supports Opject Quarted Lauguage and Concepts of claries and objects come into existence

(7) Extensible: It implies that other languages such as C/C++ can be used to compile the code and thus it can be used further in our plother code. (8) Large Offandard Labrary; Python has a large and broad library and provides such set of module and function for exped application development. development.

@ GVI Programming Support:— Geophical user interfaces can be developed wing Python.

It can be easily integrated with language like C, e++, Java etc. (6) Integrated

5 Tustify why python is interactive interpreted

As (py) files are some in the Python interpreter.

Tuteractive mode is a command line shell which gives immediate feedback job each statement, white eurning pluriously fed statement, while summing in active memory. As new lines are fed into the interpreter, the fed program is evaluated both in post and in whole.