dossignment 1

1 write to points to represent the differences between C Programming and Bythan Programming.

1 C is a procedural programming language whereas lython supports 00 hs.

② C supports pointers whereas extron does not.

3 C is mainly used for hardware related purposes but bythom is used as general purpose.

1 C comes with compiler where Python supports interpreter

3 c have limited number of built in function but bythom have a very humagous library of functions.

(I is close to computers that why paster whereas extrom is solower.

D dyntax of Cia tough wheras lython is more like psedocades.

De uses header files wheres gython doesnot

(9) Coupporte un line variable assignments reheras bython doesnot.

(down't keep any provision of indendation but the Bytron keeps child block indented,

© Explain any one filld of computer sectince in detail with some examples where lython is used.

Machine cearning - Neural Networks are the processing unide of a ML system. They try to simulate the the real network of the neurons in our brain

Cython is most powerful tool as usell as popular to program these

neural ML modela. One of the most popular libraries used by developers around the world to work with Rython

applied to Machine Learning is Tomorphow. Its a free open source library dueloped by the Joseph Brain Team. This library is used for reasonatch and production at Joseph. Other popular libraries used are

[·] Keraa

[·] extrach

3 To Eython word for research purpose also support your answer in detail with some examples.

Bython is general-purpose programming larguage and is becoming increasingly popular tool in research. It is intuitive to learn, too a flourishing contine community and is upon source. Its popularly partly arises from its easy to use, versatile functionally tracted of using different software programs to accomplish different tasks, bython can save researchers a significant amount of time and frustration lettron have a fruge list of open source packages, that helps researchers with—

• Data collection • Data brocesing and organization (number, Scily, Matplothi, Scalorn)

(Number, Scily, Matplothi, Italian)

4 Find out the difference between a compiler and an interpoter.

Compiler - compiler scans the entire program and convert it into machine code at once and give all the errors at the same time (if any), the compiler generates an intermediate object coded entity which is further linked.

Interpreter - Deterpreter translates the program into machine code line by line without generating an abject code. It stops whenever an error is encountered and corrected.

5 Investigate the difference between a header file in C and module in Eython.

C header file use a # include setatement, which is a pre-processor directive, essentially a pre compilation copy and paste. Using header files you still need to link in the corresponding compiled libraries, if any into the executable.

Modules in Eython are files containing Eython code. It is considered as a Eython object with arbitarily named attributes that you can bind and reference.

Python is not a compiled language. When you say import x, you're giving command to interpreter to rum some sode and make some name.

include is more like talling the compiler what to do to continue compiling at this point.