

## Assignment - 1st

① Discuss various features of python.

Ans - Various features of python are :

- Python is a dynamic, highlevel, free open source and interpreted programming language.
- Easy to code and object oriented language.
- GUI programming support and high level language
- Python is portable language having extensible feature.
- Free and open source and cross platform language.

② Compare between c and python.

Ans :

Comparison Parameter	C	Python
Developed	Dennis M. Ritchie (1972)	Guido Van Rossum (1991)
Programming model	procedural programming language	object oriented programming language
Type of language	Middle level language	High level language
Compilation and interpretation	Checking of program line by line by compiler.	interpreters check the entire python code and all the errors in the python code is reported at once.
Speed	c is a faster language	Python program are Slower than c programs.
Pointer	c support pointer	No Support



④ Discuss the functions

- a) `id()` : The `id()` function returns a unique id for the specified object. All objects in Python has its own unique id.
- b) `type` : The `type()` function in python returns the data type of the object passed to it as an argument.
- c) `max` : The `max()` function returns the item with the highest value, or the item with the highest value in an iterable.
- d) `min()` : The `min()` function returns the item with the lowest value, or the item with the lowest value in an iterable.
- e) `eval` : `eval()` allows to evaluate arbitrary python expressions from a String based or compiled code based input.
- f) `ord()` : The `ord()` function returns the number representing ASCII code of a specified character.
- g) `bin()` : The `bin()` function returns the binary version of a specified integer.
- h) `chr()` : The `chr()` function returns a character for a given ASCII value.
- i) `oct()` : The `oct()` function converts an integer into an octal string.
- j) `hex()` : The `hex()` function converts the specified number into a hexadecimal value.