D Features of Python:
• Eary to code
• Eary to read

· free and openrouse

: * · Koburt standard library

* Interpreted

· Portable

* Obtect-Oriented programing language.

* · Byramically Typed.

@ tilhat is python:

· Pythan is an interpreted, object-oriented, high-deur programming danguage with dynamic semantics.

3) what is dynamically typed larguage:

The variable is checked at the Funkine of the code ther it is a dynamically typed danguage.

eg: Python, janarript, PHP ruby.

(4) What is statically tryped language:

The variable is checked at the compile-time of the code than the language is called a dynamical styped language.

3 Interpretted language:

Python is a interpretted language, that means a source code is convexted into bytecode then it is executed by the python virtual machine.

@ PEP-8 (Python enhancemetprolocal):

It is a document that provides guidelines and best practices on how to write fyther code.

Flifference between dist and tuple:

· Lists are mutable

· Lists are ordered.

· Elements of the dist can access by index value +ved-ve

· List ure []

in time consuming.

· heit is better for performing operations like insertiondalition.

· List consumes more memory.

· hist have several built-in methodi. eg (appendi), copy!), clearer, extend er, mis er, mosso).

Tuple.

· Tuple are inutable. · Tuple are ordered toes.

· can be accessed by the & -ve index values.

· Tuple use ().

· Implimentation of iteration · Implimentation of iteration is compositively fait.

. A tuple datatype is apropriate occurring the eliments!

Tuple consumes les compari-

· Tuple does-not have many built un if method.

8 Rifference between dist and Set:

· List is mutable . It is ordered collection of illems.

. I tems in diels can be replace or changed.

· Set is also mutable.

· It is unordered collection of items.

· Hems in vet cannot be · charged or aeplace.

- · set cannot have duplicals 3 · List con have duplicate nalues on values.
- 1) hist updation methods:
 - · using + operator
 - · inserted
 - · append ()
 - · extend ()
- 10 hist deletion methods:
 - · Del (Keymord)
 - · Jemour ()

 - · clear ()
- (1) List comprehensions: Loop in dirt is known as dist comprihension
- @ Built in Ralatypes:

it is the datatypes that are predictined by the programming language itself.

- 3 sequeres datatypes:
 - · String

 - · Luple
- (1) hosp control statements: Break, Continue, pass

· ie the loop in which it appears, and secures execution at the next statement immediately after the end of that loop.

Continue:

- It forces to execute the next iteration of The deep.

code inside the loop for the current iteration only.

Pars:
It will not execute the door iteration in a cloop and skips.

(15) Modules in python:

is a file containing python definition and statements. · A module can define functions, class, reside

13 Packages in Python:

· Apython package is a collection of module.

Modules that are related to each other are

put into the same packages.

(7) Une of self in python.

· dell appresents the instance of class.

. This keymond allows us to access variable, attribute and method of a defined class in python.

18 Diff b/w in it. py and in it.

in-il.py

beattern time

. There are files are acquired to make python treat the directories as containing packages. . This is done to prevent directories with a common

. _-inel -- is mainly constructor.

. It is used to initialize The objects state.

19 Slicing in Pythen:

It will show the acuers of the given string. :: slicing operator.

(20) Difference blo arrays & diet:

· Can consist of elements belonging to different data Jeppes.

· cannot directly handle arithmetic operations.

only concist of elements belonging to the same data

· Car directly handle arithmetic operations.

Extensions of a function or class.

Did Fris uned to store data natures in key natures. (22) Dict and list compréhenses.

pairs : It can be curêtten as a reries of key: value pais

3 Python Path: It is a special onvisonment variable that provides guidance to the python interpreter about where to find various dibraries and application.

(24) Herators in python:

It is an object that allows you to iterate over collections of data, such as list, huple and dictionaries and sets.

It is an object that contains a countable number of values.

(26) How to delete a file is python? Cos. remous ("filename").

(27) Split and join functions:

The split () splits a string winto dists.

Syntax, string. split (separator, marsplit). split function:

join function:

The join comethod takes all items in an iterable and joins them into one string.

A string must be specified as the uperatos.

Syrtax, string. join Criterable).

(2) Types of arguments in python: · Refault argument · Keyword argument · Keguired argument · Variabledength argument. (19) ARGS and KWARGS. ARGIS (*args): It allow us to pass a variable number of non-keyword arguments to python functions. The special system ** kwargs in Jurctions in python is used to pass a keyword, variable-length argument dist. equiett both function: det myfun (aig1, arg2, arg3): print ("arg!", arg 2) print ("arg 3:", arg 5) args = ("Creeks", "for", "Creeks"). myfur (*args). (30) Negative Inda:
It is wred to begin slicing from
the end of the string is. He dast.

(31) oops programming language:

It is a programming paracligm

that use objects and classes in programming.

(32) Type of inheritance:

· Single · Multiple · Multilevel · Heirarichel

(3) Access specifiers:
Prinate
Public
Protected

(39) How to create empty class in python: class cludent ::