1) what is python and why is it alled an interpretal language?

801 "106" 00 A) Python was cocased by Quido van Rossum in the late 1980's and

officially holeased in 1991. It emphasizes code readability with a clean and casy-to-understand Shugas. (3mongo

city is python called an interpreted language?

Because Python code is executed line by line by an intexpretes not compiled into machine code beforehand like c or Java.

and pooless conals. Grands

A) what are Python is one of the most popular programming language in the world both for beginners and professionals because of a combination. of Simplicity, flexibility and power. Data Salena

1. Easy to learn & Read,

8. Intexposted larguage

3. Dynamically Typed

4. High-level larguage

5. large standard library

6. Cross platform

28 and 7- newatile haby along

8. doject-oriented

9. in Jegnation application

3) what is the difference between Python a and Python 3?

Python 3 Mai features Python 2 Release years accounts and 2008 8 701 Point statement Point "Hello" Point ("Hello") (Aint is a statement) (Point is a function)

5/2 = 2 miller Plant 15/2 = 25 Division behavior (integar division)

(done division)

(8) Dismertier

terampleson

bosters

whicede stoings are oscis All stoings are supposited by default, us e unicode by telault. winto go sold of a fext, log Input function all input () (returns the string, input () always) y for earl represent up relled would so the Point without Allowed (Point" (Hello") Not allowed (Print (Hello") required) general at solupe 1: exerce fold vertige to except year sit one follows 4) what are python's applications in real-world projects. in the field where the form of a use sxample I am to the A 1) web divelopment used with Djongo, Flosh to bound website used to dota analysis and Ai (numb 8) Data Schence Pondos, Tensastlava 3) Automation Duhamales repetitive tasks like file hambling and testing. scorpt ing used with Pygame, TKINtoo Bo gomes 4) Carnos & APP Development and but appsycham a 5) web scripting and Collects webside data and builds cyber security Security tools. 5) what is per 8 and why is it important in pethon pargramming what is 1EP8. PGP 8 stands for python Enhancement P80 cos. It is the official style guide for wanting clean, readable, and consistent Rython cale. If gives rake so past poarties about

* Naming Conventions.

* Industation

* Line length

* spacing

* comments

· X Cook Stoucture.

PEP8 impostant

PEPS is impostant because it helps programmers while clean, readable, and consistent python code, making it easies to understand, maintain and share with others.

6) who developed python and in which years was it released.

A) Bython was developed by avido van Rossum in the year 1991.

7) what do you mean by "dynamically typed" in python?

A) Dynamically typed means that you don't need to declare the data type of a reasiable when execting it python automatically decides the type of suntime based on the value assigned.

8) what is the difference blue a complex and an interpreter, and which does python use:

compiler

manslake the entire program

Pastes after complation

Shows an express after ann

execute a separate executable file

Cicht

index proder

Barslates & executes add line by

slower (executes one line at a

stop at the first econox

Opes not weak on executable

Python, Java scoipt.