1. There are many features in Python, some of them are __

2 Easy to code:

Python is a high-level programming language. Python is very easy to learn the language as campared to other languages as campared to other languages like c, ctt, Javascript, etc. It is very easy to code in python.

b. Free and open source:

Python language is freely available at the official website and you can also always assily.

C. Object-Oriented Language:

Python supports object-oriented language and concepts of classes, objects, encapsulation, etc.

d. GNI Programming Support: Graphical User Interface can be made using a module such as PyQt5, PyQtq, wxPython, or TK in python.

E. High-level language:

Python is a high-level language. When we write programs in python, we do not need to remember the system architecture, nor do we need to manage the memory.

F. Extensible feature o Python is a Extensible tanguage. We can write us some Python code into C or C++ language and also we can compile that code in cycre language.

z. Python is portable language:

Python language is also a portable language for example. If we are python code for windows and if we want to vuy this code on other platforms such as limix, unix and Mac.

8. Python is Integrated language 3 ...

Python is also an integrated language because we can easily integrated Python with other languages like c, c++, etc. Also, executed line by line.

9. Languages like c, c++, etc. Also, executed line by

Python has a large standard library which provides a rich set of module and functions so you do not have to write your own code for every single thing.

Lo. Dynamically Typed language Python is a dynamically-typed language. That means the type (find double) , etc) for a variable is decided at now time not in advance because of this feature we don't need to specify the type of variable.

Answer 2 -Camparison between C/ Java/ Python - --

Python

9

4

Interpreted Programming
Language

Supports operator overloading

- Provide both single and multiple inheritance
 - · Klatforn independent
- Supports multiturcading

· Has a huge set of libraries that make it tit for AI, datascience rete.

Java

Compiled programming Language

Doesn't support operation overloading

. Provide partial multiple inheritances using interferces

flatform, independent Has în-build multithr--eading support Has library support for many concepts like

Cyc++

Compiled Programming language

iltput show pothers?

Many Coll Bull Vill

Supports operator overloading

Provide both single and multiple inheritance

Platform dependent

Poes not support threads.

Has limited number of Library support

Smaller code length , 3-4 Homes less than java • functions and variables can be declared and used outside the class also. • Due to the use of interpreter execution is slower. • Vse of join not computation of the smit was to laborate a salaron of ma (atag this fatore us don't need to specify two light of sanither Overtion,3

Code length is a bit Jave has quite lesser, 1.5 times less huge code than Java.

Functions and variables Every bit of code are used outside the is inside a class.

Java Program Compiler a bit slover than ct+/c.

.c+/c program 18 a fast compiling programming language . Stritely uses syntax

Storetly wes syntax

· taking input in Python.

a = input () control string ~ always take string literal

a, b = [uput ("control string") · split() witered. Jakus two inputs as a string

Various Output terment in Python

(i) print (" formet specifier/Control string ", voniable nome)

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(iii) print (" Control string/format specifier 4% vonilable name)

(w) print (object, formats)

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Ourtion 4
       Anewer: - (a) Mod (object) if Northburn of Albert for wer of milesons (stan
         The id() function returns a unique 1d for the specified object.
                 X= ('apple; banana', cchemy)
                  Y=id(x) & returns unique identity.
       (b) type()
       type () returns class type of the argument (object) passed as parameter.
        type () function is mostly used for debugging purposes.
      (c) max()
      The max () function rotums the Hem with the highest value, or the item with
      the highest value in an likeral.
           a = n(1, 5, 3, 9)
           x=max(a) = to turms 9.
    The min() function returns the item with the minimum value, or the item
      with the minimum value in the literal.
           p= ('sweety', 'Meena', 'Sonu', 'Kusum')
           X= min(P) & stores isomir in X.
   (e) eval()
   The eval() methods return the result evaluated from the expression.
  (f) ord()
  The ord() in python returns the Unicode from a given chemacher.
   Ex-
          X= A
          P = ord ("A") or ord (x)
          print (P) -> display the unicode as A.
 The bin() tunction returns the binary string of a given integer.
(g) bin()
 Ex- num = 100
        print (bin (num)) & returns oblico100
the char() method returns a string representing a character whose Unicode
(h) char()
  point is an integer.
Ex- print (ch(71)) & returns G
```