Q What is python & what are characteristiz a Difference between uprython 2 & python 3 all dry value Call dry veference. Al Python 32 a high level programming danquage known for its simplisty & readability. It was created by spieds van rosson & first released in 1991. It is used in web, development dato canalysis / DI & more

Key Characteretics 1 Readability & samplisty . Evasy to wood sontax 2 Interprété à Language · Executez code line by line no med for compilation. 3 Dynamically Typed · No meed to idedared variable types. · Types voru imperved vat runtime 4 Cross Platform · Runs on various operating segetem like windows. macos, Elimen. Differences Between Python 2 & Python 3 Print Statement: Python 2. sprint "Hells, World!" (sprint's a statement) Python 3: dount ("Helle, World!") (dount is a (Jundison)

2 Integur Division.

Python 2: 5/2 veriltz in 2 (integer dereson)

Python 3 5/2 verilts in 2: 5 (tem divisor) you integer

Nivison use 5/12 which verilts in 2

3 Unicade Support -

Python 2: Stolings vou DSCII by defoult:

Limicodi strings requiry a 'l' brufin (eg, u "hullo")

Python 3: Strings vare unicody by defoult Bytes

requires a 'b' prefix (eg b "hello").

9 Librarles & Compatibility

Python 2: Some solder Sebrarles mag not by compatible with bython 3.

Python 3: meno Sibrarius and updates vary Joseph on python 3 compatibility.

Call by value us Call by oreforence

Call dy walrier-

- The mothed copies the vactual value of various argument anto the formal parameter of the frents
- Changes made to the Sparameter Enside the function ado not affect the original value

Call by oreference.

- The method copies the address of an argument . Ento the formal parameter
- · Changes made to the sparameter inside the fundion affect the original vargument.