poeffine Autiliseral intelligence (AI) and Provide examples. of 8+3: application.

Adiffered Entelligence & a board of computer scence that deals with cocattry britelligent muelones that can think and wook like humans Applications of AI with examples:

- \* Healthcase :- AI is wildly used in the field of healthcare and medicine.
- \* Social media. Some social media platform sul as Facebook, Instagram, etc uses Artificial Intelligence to show relevant content to user.
- \* Agosculture? In gosculture, Al has helped formers. identity areas that need forgation, testilization, Pestrude treatments or Preserving yeld.
- a) differentiate between superised and unsuperised leaving techniques on ml.

	supervised Learning	unsupervised learning
,	1) Algorithms are trained	1) Algorithms are used
	using labeled data.	aganist donta & not labeled.
	e) 2+ 13 highly	2) It & less accurate.
	accurate.	res siemsore.

- 3) uses offline coordysts.
- y) Destreed output & given.

tioned adds a now how a sold

- 3) uses real-time analysis of data.
- w Destoed output & not given.
- 3) what is Python? Discuss He main features and advantages.

Python is an interpreted, interactive object, object, object, programming language.

Features :-

- -)-Cosy to code
- 2. open-source
- 2) Portable
  - -) contensible some de la contraction de la cont

Advantages .-

- -> Reduces mointenance cost.
- -) Avoid the Harm of software Bugs.
- ) easy memory management.
- Integration with other larguages.
- 4) what are the advantages of using Python as a Programming language too Al and ml?

of the region code larguage for Al and

alvantages:

) A great library ecosystem

e) theod visualitation options.

1) community support

4) plexibility

5) And Platform Enoleperolence.

of Discuss the Emportance of Endentation in Aften code.

The Polmary Ruspose of Indentation in Polhon I to define the slope of statements, such as those within loops conditional, trinitions and classes.

a=10

Pt. alo: 100 (a post of a land and a land

Point ("negative number")

else it a == 0!

Print ("tero")

else:

Pornt (" partice member")

6) Define a variable in Python. Provide examples of Valid variable names.

A Python variable is a reserved memory location to store values.

ext a=10 name = "Nisha" A = 22.

7) explain the difference between a keyroard and an identifier in Python.

Keyword	Identifier.
1) keywords are reserved	1) Identifiers are wer-
words with a special	defined names of
meaning.	variables q furthers.
2) They are worther in lower	y Need not be worther
couse.	en lowercage.
3) contains only letters.	3) contains letter,
	undexcore and digits.

- 8) List the basic data types available in Rithon. ?) Numeric
  - Priteger
  - Hout
    - complex

f.) Sequence

- storage

- tuple

- LEST

III mapping

- dictionary

- Pr) boolean
- v) sets.
- a) Describe the syntax for an if statement in

The if statement allows you to exercise a block of code it a certain condition is true

a=16

Pf===10:

Point L'a 13 equal to 10')

in) employer the Purpose of the elif statement in Python.

The elect statement allows you to check multiple expressions for True and execute a block of whole of while of some of the conditions evaluates to True.

oge = 18 if Loge 118): Portot c'Age 8 less Han 18') elft Loge == 18); Potent C'Age & equal to 18') else: Point l'Age & greater than 18).