1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.
*
'hello'
-87.8
-
/
+
6
2. What is the difference between string and variable?
3. Describe three different data types.
4. What is an expression made up of? What do all expressions do?
5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?
6. After running the following code, what does the variable bacon contain?
bacon = 22
bacon + 1
7. What should the values of the following two terms be?
'spam' + 'spamspam'
'spam' * 3
8. Why is eggs a valid variable name while 100 is invalid?

- 9. What three functions can be used to get the integer, floating-point number, or string version of a value?
- 10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

1)

Valves -

'hello', -878,6
(Can be integes of string)

Expressions -

\* , - , 1 , +

(ase Marnermarical operators)

2>

- \* A string is a collection of chalacters which is withen in aigge Quotes (61) double Quotes. It is a daratype in python. It is immutable
- \* A vosiable is a name that can refer to a value. It is like an Compty box that can be filled with Coome dota, Even a string is data, so we can orign it to voriable.

my string = "Saket Ram"

variable

Datatypes in python -

- 1) Int Integers ex- a=8, b=6, C=43
- @ Hoot twaring point vowes (decimal points also mentioned) ca - a = 8 33; b = 7.432
- 3 wring collection of characters. (immotable) 12 - 5 = "Saket"
- (1) 43t a configuous collection of element. (Mitable
- @ Tuple (immurable)
- ( See ( Dichonary

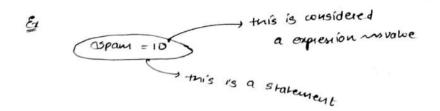
- 4) An expression is a combination of operands and operators which reduces to a single name.
  - \* An operand is a datatem on which the operation is retormed
  - to An greates is used to aspectly the type of operation being performed.

Explession 
$$f$$
 = a+t,  $f$  = a-b+l  $f$  = a+t,  $f$  = binary  $f$  = a+t,  $f$  = a

\* Explessions are as said before are concusivery reduced to single names and they are origined to variables.

But income of statements they are any declared.

Cike a tos woop, if condition, ... etc. There are all statements.



bacon = 22

bancon + 1

will just print 23.

But no effect on the variable bacon. It will still refer to the integer 22 only.

8) Here, eggs is a variable which can be used to lefter to a value.

But 100, is an integer and cannot be used as a variable based on

the rules of Pithon.

This expression will give ever because 99 were is an integer and we connot expressed a string and integer together.

To fix it we can convert 90 into string,

19 have Eaten' + 1991 + 16041105.