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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.

* **(An expression)**

'hello'**(Value)**

-87.8 **(Value)**

/ **(An expression)**

+   **(An expression)**

6 **(Value)**

2. What is the difference between string and variable?

Ans :

String: A string is a combination of character datatype and can be kept in single or double quotation and can be printed with print statement or can be assigned to any list or variable. String holds always Character datatype.

Variable: A variable is something where we can assign the value of integer,complex,string,float or null as well

3. Describe three different data types.

Ans :Three different type of datatype is **int,char/string,float** type

4. What is an expression made up of? What do all expressions do?

Ans : An expression is a combination of **values, variables, operators, also it calls to functions**.

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?

In layman term 'expression' always returns a value , also functions we call in python programming is expression but 'statement' never returns a value

6. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

Ans :23

7. What should the values of the following two terms be?

'spam' + 'spamspam' Ans : 'spamspamspam'

'spam' * 3 Ans : 'spamspamspam'

Answer for above are same

8. Why is eggs a valid variable name while 100 is invalid?

Ans : Eggs is a string value and 100 is a numeric value . Strings or names or character types can be variable name but not numeric values

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

Ans :

A = 10

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float(a)=10.0
int(a)=10
str(a) = '10'
```

10. Why does this expression cause an error? How can you fix it?

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

Ans : It is a Type eroor : (`TypeError: can only concatenate str (not "int") to str`)

`We can fix it by this :` 'I have eaten ' + '99'+ ' burritos.'