

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

Ans:- Values are 6 , 'hello' , -87.8

Expressions are * , - , / , +

2. What is the difference between string and variable?

Ans:- String is a data type and also the collection of characters or words.

Variable is a character or name assigned to a value inorder to perform various operations.

3. Describe three different data types.

Ans:- The three different data types are:-

- 1) Integer data type
 - 2) float data type
 - 3) string data type
 - 4) special data types :- List, tuple, set and dictionary.
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4. What is an expression made up of? What do all expressions do?

Ans:- Expression was made up of various mathematical operators and values.
Expressions were to perform various mathematical operations on values using operators.

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

Ans:- Expressions are mathematical operators to perform various mathematical operations and returns some value, where as statements are names that hold some value and do not return any 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'
```

```
'spam' * 3
```

Ans:- 1) `spamspamspam`

2) `spamspamspam`

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

Ans:- `eggs` a valid variable name as variable names can be started with alphabet but

`100` is invalid as variable names can not be started with a value.

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

Ans:- The three functions that can be used to get the integer, floating-point number or string version of a value are:-

1) `int()`

2) `float()`

3) `string()`

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

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

Ans:- Expression causes error as concating integer with string was difficult. it can be fixed by type-casting.
