

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.

\* Expression

'hello' Value

-87.8 Value

- Expression

/ Expression

+ Expression

6 Value

2. What is the difference between string and variable?

String - It is the data type that is expressed by characters. eg: "Hello", "World123"

Variable - Variables are the characters to which we can assign a value. eg: a = 123, Hello\_world = 123456. a and Hello\_world are the variables.

3. Describe three different data types.

3 types of Data Types

1. Int
2. Float
3. Boolean

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
```

bacon has a value of 23 in it.

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

```
'spam' + 'spamspam' spamspamspam
```

```
'spam' * 3 spamspamspam
```

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

For variable names in Python, we need to follow variable assignment rules. variable names should start with a letter or underscore, it cannot start with a number but it can have alphanumeric names

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

int()

float()

str()

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

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

it will show str cannot be concatenated with integer

we can typecase the 99 to str and can run it 'I have eaten ' + '99' + ' burritos.'

