

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?

Ans:- A string is a literal text string, i.e. 'Hello'. A variable is something that stores data.

3. Describe three different data types.

Ans:- List, Set, Dict, Boolean

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

Ans:- Expression is made up of operators and operands. All expression will evaluate different values based on addition, multiplication, division, subtraction, modulo, etc. Expression will follow (BODMAS) rule.

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

Ans:- In an **expression**, there will be combination of different operators like arithmetic, logical operators, etc. In **assignment statements**, there will be only assignment operator.

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:- 'spamspamspam'

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

Ans:- Variable name are not valid if it starts with numeric value.

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

Ans:- int(), float(), str()

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

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

Ans:- 'I have eaten ' + '99' + ' burritos.'