

**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: string: 'hello'

Integer: 6

Expression: \* - / +

**2. What is the difference between string and variable?**

String: Sequence of characters or words

Variable: named storage location to hold various type of data, including string.

**3. Describe three different data types.**

1. Integer: representing the whole numbers.
2. Float: representing the decimal numbers.
3. String: representing the sequence of characters.

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

An expression consists of values, variables, operators, and functions, and its purpose is to compute and produce a value or result when evaluated.

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

Expression consists of values, variables, operators, and functions and its purpose to produce a value.

Statement is a unit of code that can perform an action or sequence of actions.

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

```
bacon = 22
```

```
bacon + 1
```

Ans: 22

Because bacon + 1 is not assigned in a variable.

**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?**

A Variable can be start with underscore or an alphabet or a word with lower case letters.

So , eggs is a valid variable name and 100 is invalid.

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

Ans:

```
integer: int()
```

```
float: float()
```

```
string: 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.'
```