

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.: 'hello', -87.8, 6

Expression.: *, -, /, +

2. What is the difference between string and variable?

Ans. A string is a data type which holds alphabets and characters eg. 'string', whereas variable stores values of different data types.

3. Describe three different data types.

Ans. int is a data type which holds integers data into it

string is an another data type which stores alphabets, characters and sentences

bool is a data type which store true or false values

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

Ans. Expression is made up of statements and operators, and all expressions evaluate the result.

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

Ans. In expression operators are present which return the value after evaluating the expression and statement is the declaration and initialization of the variable.

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

```
bacon = 22
```

```
bacon + 1
```

Ans. Variable bacon contains 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. Python only interprets the alphabets or combinations of alphabets as variables and not the integers, there are rules for naming of a variable and 100 is an invalid variable declaration.

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. Expression causes an error because we cannot add string and integers together either it should be string or integer, we can fix by making 99 a string

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