

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' :values

-87.8 : values

- :expression

/ :expression

+ :expression

6 :values

2. What is the difference between string and variable?

Ans: A string is a value which is represented as a text. A variable is a name that can be used to store or referred to any value.

3. Describe three different data types.

Ans Different data types:

Integer: represented as – int(): It is a whole numbers eg- 1,23,4

String: It is a alphanumeric characters : represented as -str() : eg- "Sweekrithi"

Boolean: Representing a logical values. represented as -bool(): Eg-"True","False"

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

Ans An expression is a combination of variables ,operators and numbers.Expressions will be help to evaluate a value ,calculate mathematical operations,etc.

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

Ans:

- An expression is a combination of variable, operators and numbers where it will help to return a value.
- Statement is used to represent an action and to form the sequence of a program.

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

```
bacon = 22
```

```
bacon + 1
```

Ans Bacon will contain 22

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?

Ans: Variables cannot begin with numbers.

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

Ans: The int(), float(), str() functions can be used to get the integer, floating-point number, or string version of a value

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

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

Ans: It will show an error because we cannot have combination of string and integer values as both are of different data type.

We can fix it:

```
'I have eaten ' + str( 99) + ' burritos.'
```