**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. 1:

values are ‘hello’ , -87.8 , 6

Expressions are \* , - , / , + ,

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

Ans.2

Variable is a box or location or store where information or data can be stored or saved for further use.

String is type of information which will be store or save in Variable.

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

Ans.3

Data types are Integer, Float, String, Boolean,Character

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

Ans.4

An expression is a combination of values, variables, operators, and calls to functions. Expressions need to be evaluated. If you ask Python to print an expression, the interpreter evaluates the expression and displays the result.

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

Ans.5

Expression is a combination of variables, operations and values that yields a result value.

*For example*

*spam =10*

*Print (spam)*

*Output is 10.*

Statements represent an action or command e.g *print statements, assignment statements.*

For example spam = 10, Here equal to sign is assignment statement & so that Value of spam is 10.

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

**bacon = 22**

**bacon + 1**

Ans.6

23

We assign value of bacon =22. Now we add value 1 to bacon. So final bacon variable contain 22+1= 23.

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

**'spam' + 'spamspam'**

**'spam' \* 3**

Ans.7

'spamspamspam'

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

Ans.8

eggs is a string while 100 is integer .

In python it’s a thumb rule that use string for defining variable name.

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

Ans.9

For Integer use int

For floating point number use float

For string use str

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

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

Ans.10

Can only concatenate str (not "int") to str

In above statement 99 shows integer value which cannot concatenate with string.

If we use ‘99’ as string than error will be removed.