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?**

A) String is value given to variables and they are combination of characters and variables are used to store values.

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

A) Data types are divided into numerical data types(int,float), string data types(strings) and boolena data types(true,false)

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

A) Expressions are combination of operators and operands. And they do used for computational purposes.

Eg. A=B+C

Here A,B,C are operands(variables) and =,+ are operators.

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

Span=10 is a assignment expression where value 10 is assigned to span variable. Expression is combination of operators and operands where it returns a value but statement is used to execute a command.

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

bacon = 22

bacon + 1

A) in 1st line variable bacon is assigned with value 10 and in 2nd line bacon is increment with 1 value. So, after executing 2nd line variable bacon contains 23(ie., bacon=23)

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

**'spam' + 'spamspam'**

**'spam' \* 3**

A)(i) 'spam' + 'spamspam'🡪 spanspanspan

(ii) 'spam' \* 3🡪spanspanspan

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

A)eggs is a not a predefined keyword and there are certain naming conventions while declaring a variable names. Variable names should only start with a-z and \_ and intergers must not used for defining names

So, eggs is valied string name as they starts with a-z and 100 is not a valied string name beacouse it only contains interger literals.

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

A) int(),float(),str() are three functions used to get interger version of value.

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

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

A)above expression throws an error as while concatenating those three statements we have to consider 99 value as string beacouse we are not doing any mathematical calucations to 99 value. So above error can be fixed by placing single colon before and after 99   
 **‘I have eaten’+’99’+burritos’**